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COMMODORE SOFTWARE ENCYCLOPEDIA



commodore



COMMODORE
SOFTWARE ENCYCLOPEDIA

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INTRODUCTION

This encyclopedia is a listing of most of the software offerings, known to Commodore as of this printing, which are available for use on the CBM/PET line of computers.

This encyclopedia is divided into seven (7) categories. However, some programs from one category may be applicable in another area. For example a housewife may find that a secretary's appointment program is useful for her own needs. Thus a program under the Business heading may be of interest to the housewife. We therefore suggest that you carefully review each of the different categories. IT IS ALSO THE PURCHASER'S RESPONSIBILITY TO DETERMINE THE COMPATIBILITY OF HIS EQUIPMENT WITH PROGRAMS CONTAINED IN THIS ENCYCLOPEDIA. These programs are included in this encyclopedia for information purposes only. Inclusion does not constitute an endorsement of the product unless the Commodore logo appears opposite the listing. Prices are subject to change without notice.

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* Note: Program index may be used as a handy guide to show the scope of this encyclopedia.



HARDWARE OVERVIEW*

COMPUTERS-

PET/CBM: The Personal Electronic Transactor was the original self-contained microcomputer offered to the public at an affordable price. The CBM is a PET that has been designed primarily for business use and incorporates features to facilitate business applications. All Commodore computers are equiped with an integrated CRT (cathode ray tube screen) a keyboard and CPU (central processing unit).

ROM's: (Read Only Memory) There are currently three versions in use. 2.0, 3.0 and 4.0. 2.0 was the original ROM supplied, (also called "old ROM's"). 3.0 was an improved ROM (called "new ROM's") and was supplied on machines manufactured for a short time about mid 1980. 4.0 is the current version. To find out which version you have, look at the machine immediately after a power on. If the top line reads "*** COMMODORE BASIC ***" the machine is equiped with 2.0 ROM's. If the top line reads "### COMMODORE BASIC ###" the machine is the 3.0 version. And if the top line reads "*** COMMODORE BASIC 4.0 ***" you have 4.0 BASIC.

PET

2000 Series: This is a 40 column by 25 line (1000 character total) integrated micro computer equiped with various memory capacities from 8K to 32K. Originally it was manufactured with a calculator style keyboard and integrated cassette for mass storage. That version is no longer available as all machines are currently manufactured with the typewriter style keyboard and a minimum of 16K memory. The N keyboard designation is the graphics version while the B keyboard is intended for business use and carries the CBM logo. Currently all machines are shipped with 4.0 ROM's which support disk commands. Software written entirely in BASIC will run on any ROM version. If a program containing machine language is to be run it is advisable that you find out what ROM version was used for that program. NOTE: All PET/CBM machines can be field upgraded with a ROM upgrade kit.

4000 Series: 40 column machines with N or B keyboards. The N keyboard is the graphics version carrying the PET logo and has the graphics symbols on the keyboard. The B keyboard is the business model with the CBM logo and has a typewriter style keyboard. This machine is available in 16K or 32K memory configurations.

8000 Series: 80 column by 25 line (2000 character total) business machine with B style keyboard and is available in 32K memory configuration with 4.0 ROM's.



DISK DRIVES-

DOS (Disk Operating System) There are three versions of DOS used on Commodore Disk Drives, 1.0, 2.1, and 2.5. The original system was DOS 1.0 and is no longer manufactured. 2.1 and 2.5 are used on the 4040 and 8050 disk drives respectively. These two versions offer enhanced disk commands over the 1.0 making disk operations easier.

Dual Drives: At present all Commodore Disk Drives are Dual units which use 5 1/4 inch floppy diskettes. All units are intelligent, meaning that they do not require computer memory for operation, and are complete with read/write heads, drive motors and track positioning mechanisms.

2040: Equipped with DOS 1.0 and offers a total capacity of 167K bytes per disk drive for a total of 336K. (Can be field upgraded to DOS 2.0.)

3040: European version which is essentially the same as the American 2040.

4040: Same as the 2040 except that it is equipped with DOS 2.1 and has 166K storage capacity (332K total).

8050: Equipped with DOS 2.5 this is the most powerful 5 1/4" Disk Drive offered today with 500K bytes of storage per disk for a total of 1 megabyte!

PRINTERS: There are two types of printer paper feed mechanisms, tractor and friction. Friction printers feed paper just like a typewriter. Tractor feeds exert positive control on the paper by utilizing sprocket holes along the sides of special paper very similar to film in a movie projector. Such a system enables precise control over the physical position of the paper which is essential for such applications as mailing label printouts and form printing.

2023: This is a friction feed dot matrix printer which has a print speed of 60 lines/minute. Discontinued.

2022: Same as 2023 except that it is the tractor feed version (replaced by 4022).

4022: Similar to above but with an improved printing mechanism (current production model). Throughout this encyclopedia when reference is made to a 2022, a 4022 may usually be substituted.



MISCELANEOUS-

- 8010 MODEM This is a device which permits your PET/CBM to "talk" to other computers over the telephone.
- 4010 VOICE
RESPONSE UNIT A voice synthesizer which will endow a PET/CBM with the powers of human-like speech.
- ASCII PRINTER ASCII stands for American Standard Code for Information Interchange. In order to use this type of printer with PET/CBM computers an RS-232 or parallel interface is required. These are usually letter quality printers but some dot matrix printers are also included such as the high speed bi-directional Mannesmann Tally 8024.

* Although every attempt has been made to provide as much information as possible with respect to hardware compatability, the ultimate responsibility lies with the user in determining whether or not a program will function with his particular equipment. THE PURCHASER IS STRONGLY URGED TO SEEK THIS INFORMATION FROM THE DEALER AND TO SPECIFY HIS EQUIPMENT COMPLEMENT BEFORE ANY PURCHASE IS MADE.

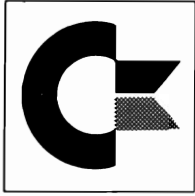


BUSINESS

PRODUCT NAME:

Ozz - The Information Wizard

Product Code: 500010



A fast running machine code program permitting the user to design his or her own data management and retrieval system. The user assigns categories to a variety of numerical or textual data, in matrix or chart form, and using his own format to store, access, manipulate and edit the data. Ozz also performs numerical calculations in different categories.

The Wizard is layman oriented and "user friendly" as the conversational style of the illustrated manual indicates.

Specifically designed for the Commodore 8032 computer Ozz lets you:

1. Format and store information.
2. Perform calculations.
3. Design forms and documents.
4. Analyze information.
5. Access files and perform global search.

HARDWARE REQUIREMENT: 8032 CPU, 8050 Disk Drive and suitably interfaced letter quality printer.

AVAILABLE FROM:

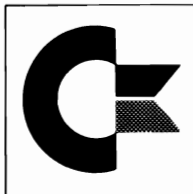
Commodore Dealer

\$395.00

PRODUCT NAME:

Dow Jones Portfolio Management System

Product Code:
500040



- on line access to quotes for 6,000 stocks
- on line access to Wall Street Journal, Barrons and
- Dow Jones news service stories by stock symbol for 6,000 stocks
- maintain and control stock portfolios
- system provides tax records of all transactions
- automatic valuation of stock portfolio positions via Dow Jones data base
- Screen display of current positions valued to the market
- summary and detailed reports on portfolio positions
- automatic dialing and sign-on for Dow Jones data bases with auto dialer modem
- manual dialing and sign on with Commodore modem

HARDWARE REQUIREMENTS: 8032 or 4032 CPU, 4040 or 8050 Disk Drive, 4022, 2022 or 2023 Tractor or Friction Feed Printer or Mannesmann Tally 8042 Printer and most suitably interfaced ASCII Printers, 8010 Modem or TNW Auto Dialer Modem.

AVAILABLE FROM:

Commodore Dealers

\$149.95

BUSINESS

PRODUCT NAME:

Information Retrieval &
Management Aid (IRMA)

Product Code: 900040



The Information Retrieval & Management Aid system enables agencies as well as recruiting and search firms to access their entire applicant file with unbelievable speed. The retrieval system offers an unlimited variety of selection methods which opens the applicability of this system to many industries other than simply employment agencies. Among these are: advertising agencies, corporate personnel departments, dating services, insurance agencies, musicians unions, high school college placement offices, and many more.

The Information Retrieval & Management Aid system offers the following features:

- instruction manual and built-in help file
- up to 5000 candidates per disk
- unlimited file storage
- direct, on screen, data-entry
- multiple file search
- screen and printer display
- file listings by name
- file listing by name and personnel data
- easy editing and purge system
- disk formatting and initialization
- fast data entry
- correction mode

HARDWARE REQUIREMENTS: 8032 or 4032 CPU, 4040 or 8050 Disk Drive, 2022 Tractor Printer or suitably interfaced ASCII Printer.

AVAILABLE FROM:

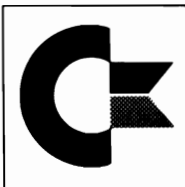
Commodore Dealers

\$495.00

PRODUCT NAME:

LTA Legal Time Accounting

Product Code: 500050



LTA allows law firms to automatically process matters by client, lawyer and activity simply by recording log entries. Each log is cross-referenced with the appropriate matter and then is managed by the computer. By-product reports provide detailed management information without additional effort.

As the lawyer completes an activity for a client, he annotates a pre-numbered log sheet with the matter number, activity code i.e. telephone, research, remarks, fee code, etc. to be stored on disk. Later the secretary batch keys the daily log entries, which posts the file with the updated information.

On demand, authorized personnel can view on the screen any client data without the need of a printout. Updates

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and corrections can be made at this time.

LTA can generate these important management reports and allow the user selective printout. In addition LTA will store aging analysis, activity revenue, and lawyer productivity reports.

LTA is a total system support approach to law firm administration.

LTA now interfaces with WORDCRAFT 80 word processor.

HARDWARE REQUIREMENTS: 8032 CPU, 8050 Disk Drive, 2022, 4022 or most suitably interfaced ASCII Printers.

AVAILABLE FROM: Commodore Dealers \$595.00

PRODUCT NAME: EBS Accounts Receivable and Inventory System



An integrated software package combined with the low-cost Commodore hardware offers a comprehensive integrated receivables and inventory control system at a price small businesses can afford.

Operating parameters chosen from prompted choices on the computer screen enable even a first-time computer user to tailor the system for his particular requirements. No modifications are necessary to make the system work for you.

Features include:

Order entry operation at time of invoicing.

Menu selection.

Backup disk facilities.

Global change feature.

Global report generator.

Foolproof operation "forgives" operator error.

Easy to read manual assumes operator has no previous training.

HARDWARE REQUIREMENTS: 8032 or 4032 CPU, 8050 or 4040 Disk Drive, 2022, 2023, 4022 or most suitably interfaced ASCII Printers.

AVAILABLE FROM: EBS \$750.00

BUSINESS

PRODUCT NAME: BPI General Ledger

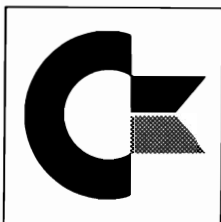


Brings highly sophisticated computerized accounting within the reach of all small businesses. This system has been written in the language of the business and professional community and can be used immediately with no prior computer experience. The system reduces the difficult task of accounting and financial statement preparation to making simple entries. All posting, statement preparation and closing is done by the computer system automatically.

HARDWARE REQUIREMENTS: PET/CBM 32K Computer, 4040 Disk Drive.

AVAILABLE FROM: BPI Systems Inc. \$395.00

PRODUCT NAME: Tax Preparation System Product Code: 500030



Tax Preparation System - Form 1040

The features are:

- prints directly on IRS form
- automatic exemption computation
- 1040 long and short forms
- regular or income averaging
- simultaneous separate or joint returns
- schedule A, B, C, D, G, TC, SE
- easy editing
- instant error-free continuous calculations
- file storage for prior years evaluation

HARDWARE REQUIREMENTS: 8032 or 4032 CPU, 4040 or 8050 Disk Drive, 2022 or most suitably interfaced ASCII Printers.

AVAILABLE FROM: Commodore Dealers \$495.00

PRODUCT NAME: Real Estate Listing Product Code: 80-RI

Enter. Edit, Delete, Display or Print Listings of all Property on file (up to 200 listings with data in nine categories per Diskette). Any number of Diskettes may be used. Lists both property and prospective Clients for matching.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Computer House Div. \$180.00

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PRODUCT NAME: Inventory Control

Product Code: Inv.6

Disk based: the inventory control includes: point of sale and accounts receivable. Designed to handle merchandise sold and received, updates files with one entry, supplies cost values of merchandise in stock, prints purchase orders, invoices, statements, total print out of items. Each diskette will hold a minimum of 2000 items.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Micro Computer Industries, Inc. \$100.00

PRODUCT NAME: General Ledger

Disk based only: Includes: point of sales, accounts receivable, accounts payable, inventory control; will write purchase orders, invoices, statements, keeps track of deposits, write balance sheets - printing functions in the program - ASCII printers can be used. This program will develop and maintain a complete set of books.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Micro Computer Industries, Inc. \$350.00

BUSINESS

PRODUCT NAME: JINSAM Newsletter Product Code: JMNL

Quarterly publication. Includes user applications for JINSAM Data Manager systems, user comments, updates, detailed descriptions of interface accessory modules and new releases.

HARDWARE REQUIREMENTS: None.

AVAILABLE FROM: Jini Micro Systems, Inc. \$5.00

PRODUCT NAME: JINSAM Data Manager Product Code:JDM 1.0/
4.0/8.0



Jinsam is an electronic filing system which allows you to manipulate and organize files. There are three versions of the JINSAM Data Manager, 1.0 for the 2000 series CBM, 4.0 for the 4000 series CBM and 8.0 for the 8000 series CBM. A file from any version of JINSAM can be upgraded to a higher level and from one disk drive to another. You find information by typing a word or number into the computer and the record or records appear on the screen or on a printer. This printout may be in any form such as lists, labels, reports, or documents. The 4.0 and 8.0 versions hold approximately 1900 records per database and many databases are allowed per disk. There are no limits on record length or number of fields. This system ties in mathematical, statistical and wordprocessing capabilities. Among the interfaces available are; WORDPROPACK, which accommodates WordPro 3 and 4; CALPACK, which allows JINSAM files to be analyzed by VISICALC; STATPACK, which follows the SPSS format used on IBM macros; MATHPACK, which permits arithmetic functions; and JINSORT which allows records to be sorted by three or four fields at the same time, and printed in ascending or descending order. The total JINSAM system includes a detailed user's guide, quick reference guide, database core, report writer, label writer, JINSORT ROM, ROM expander board WORDPROPACK, MATHPACK, STATPACK, each with their own guides, demo programs, sample databases and the JINSAM Newsletter. HARDWARE REQUIREMENTS: 32K CBM/PET, 2040, 4040 or 8050 Disk Drive depending on version, almost any printer.

AVAILABLE FROM: Jini Micro Systems, Inc. \$395.00 (1.0)
695.00 (4.0)
795.00 (8.0)

PRODUCT NAME: Accounts Product Code:SW-3

This program allows you to create a data base for company names, addresses, invoice and purchase order

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numbers, and amounts of purchase. Locates information on specific companies, determines amounts owed, lists past-due accounts.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Total Information Services \$24.95 cassette
\$29.95 floppy disk

PRODUCT NAME: Calendar Product Code: SW-5

This program enables you to keep track of appointments in a busy office, schedule your social engagements, etc. It is an all purpose datebook complete with events, dates, times, and notes.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Total Information Services \$24.95 cassette
\$29.95 floppy disk

PRODUCT NAME: Calculator

Especially for the Accountant-Bookkeeper this program not only allows your PET to function as a calculator, but also has such features as Lister (which verifies and displays errors between two tape listings) and Matrix (which adds columns vertically and horizontally).

HARDWARE REQUIREMENTS: 8K PET/CBM.

AVAILABLE FROM: Sawyer Software \$10.00

PRODUCT NAME: Disk General Ledger

Maintains complete financial information on diskette. Allows user to set up his own account names and numbers and uses a double-entry bookkeeping system. Add or delete accounts, edit data, close out accounts at year's end and verify debit and credit totals. This package generates trial balance, profit/loss statement (which includes percentages), balance sheet and journal. Designed for ease of use and includes complete documentation.

HARDWARE REQUIREMENTS: PET with disk drive.

AVAILABLE FROM: Sawyer Software \$195.00

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PRODUCT NAME: Disk Payroll

Computes FICA, Federal, State taxes and allows for deduction of City tax and/or other deductions. The state tax is calculated on a percentage of the gross pay and can be customized for your particular state's requirements. Also utilizes a printer to generate a hard copy of several reports including: Payroll Register - which prints the current payroll, quarterly and year-to-date figures and Payroll Account Summary - which prints department breakdowns for cost accounting and recommended tax deposit. Well-documented and users are notified of tax changes.

HARDWARE REQUIREMENTS: 32K PET with single or dual disk drive.

AVAILABLE FROM: Sawyer Software \$195.00

PRODUCT NAME: Accounting Pack I Product Code:

A general ledger package designed for small businesses and homeowners. It contains check journal, general ledger, income statement (current ytd, previous month ytd and current month) and balance sheet (current month and previous month). The system uses a unique single entry bookkeeping system and can hold up to 50 entries per period (month, week, day) and up to 40 different accounts. Each period's data is kept on convenient cassette tapes. Utilizing the general ledger command, the user can view the general ledger entries for the month from Assets to Expenses or view the entries on one specific account. This program also includes a checkbook reconciliation routine which aids in finding checkbook errors.

HARDWARE REQUIREMENTS: 8K PET/CBM.

AVAILABLE FROM: Sawyer Software \$25.00

PRODUCT NAME: Accounting Pack I - Printer (cassette)

A general ledger package with all the features of Accounting Pack I, plus the ability to print hard copy of the General Ledger, Balance Sheet and Income Statement. This program will hold a combination of accounts and entries totaling approximately 35 in one period (month, week, day).

HARDWARE REQUIREMENTS: 8K PET/CBM.

AVAILABLE FROM: Sawyer Software \$50.00

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PRODUCT NAME: Accounting Pack II (cassette)

A much more powerful version of Accounting Pack I that has all the features of API, plus up to 250 entries per period, command menu, optional debit credit of entries, easy addition or deletion of accounts, form matter for reports, intelligent report generator and single entry for sales transactions.

HARDWARE REOUIREMENTS: 16K PET or new CBM.

AVAILABLE FROM: Sawyer Software \$45.00

PRODUCT NAME: Business Analysis

Allows management to have available to them information for financial planning decisions. Up to 4 years of Balance Sheet and Income Statement information can be entered with resultant analysis in the areas of liquidity, leverage, profitability and activity. The ratios generated for each year are the: current ratio, acid test, debit-nw, profit-nw, profit margin, sales-rec, sales-inv, sales-wc, with a brief explanation of each. The growth analysis gives the yearly growth in 5 areas and the average growth in 5 areas. Future growth analysis projects figures for the next year.

HARDWARE REOUIREMENTS: 8K PET or new CBM.

AVAILABLE FROM: Sawyer Software \$30.00

PRODUCT NAME: Business Graphic Pack

Simple to use, but professional in output. The graph includes title, labeling of axis, dual graphic ability, whether the data is in Mill's, 100's or 1000's and an optional x-axis = date and labeling of the x-axis with month and year. Entry is as easy as typing the title, # of entries, the X,Y value (Jan. 15. 1978 would be entered as 115.78), entering if the x-axis = date, if the user wants cross-hatching and then graphing. The program also includes Nth order and Geometric regression to give the user a formula for his set of data (if possible).

HARDWARE REOUIREMENTS: 8K PET or new CBM.

AVAILABLE FROM: Sawyer Software \$25.00

PRODUCT NAME: Checkbook Reconciliation (cassette)

Designed for ease of use and to find those troublesome

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checkbook errors, balances your checkbook and bank statement from month to month. It locates over ten different types of errors and instructs the user on correcting them, including bank statement errors made by your bank. Records data on cassette for next month's balancing - saving re-entry of figures.

HARDWARE REQUIREMENTS: 8K PET or new CBM.

AVAILABLE FROM: Sawyer Software \$25.00

PRODUCT NAME: Financial Pack (cassette)

Includes Amortization Schedule, Calendar (which figures days between two dates), Rebate (which is calculated on the Rules of 78's), Compound, Annuities and Monthly Payment.

HARDWARE REQUIREMENTS: 8K or new CBM.

AVAILABLE FROM: Sawyer Software \$15.00

PRODUCT NAME: Payroll (cassette)

Especially designed with the small businessman in mind. Utilizing cassettes, can record data for any number of employees (8 employees per cassette). Computes tax information and updates totals for quarterly and yearly reports. Employees can be salaried or hourly and pay periods can be either weekly, bi-weekly, semi-monthly or monthly.

HARDWARE REQUIREMENTS: 8K PET or new CBM.

AVAILABLE FROM: Sawyer Software \$30.00

PRODUCT NAME: Payroll-16K (cassette)

Calculates complete tax information and maintains 25 employees per data cassette. Has the same features as Payroll, plus a printer feature that allows the user to print the payroll register on a printer.

HARDWARE REQUIREMENTS: 16K PET or new CBM.

AVAILABLE FROM: Sawyer Software \$45.00

PRODUCT NAME: Schedule Planner

Schedule Planner can be used by secretaries, receptionists, housewives or anyone wanting to plan and

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have at their fingertips their own schedule. Data entered is date, time, priority and description. The commands allow the schedule to be shown for a particular day, request of time or the "viewing" of appointments according to importance.

HARDWARE REQUIREMENTS: 8K PET, or CBM.

AVAILABLE FROM: Sawyer Software \$15.00

PRODUCT NAME: Schedule Planner #2 (cassette)

All the features of Schedule Planner, but for one or more individuals. Customer can call in asking when his appointment with Dr. Jones is and in seconds, the receptionist can give the date and time; or Dr. Jones can find out his schedule for the day. With the viewing command, an appointment at 12:00 on a particular day will display on the screen at that time allowing receptionists and secretaries to validate appointments.

HARDWARE REQUIREMENTS: 8K PET or new CBM.

AVAILABLE FROM: Sawyer Software \$20.00

PRODUCT NAME: Inventory Control Package RI.0 Product Code: Inv.I.0

Random access inventory control. Maintains information on up to 4200 items, as well as purchase orders. Utilizes unique data compression technique for maximum capacity. Excellent user manual and programming guide. Programs are easily customized. Package is menu driven, fully user-proofed, and has been sold for over one year.

HARDWARE REQUIREMENTS: 32K PET/CBM, 2040 Disk Drive, Printer.

AVAILABLE FROM: MiniComp Systems Limited \$170.00 (US)

PRODUCT NAME: Accounting Assistant Product Code: 0048P

Solve many of those day-to-day financial problems. Included are: LOAN AMORTIZATION SCHEDULE and DEPRECIATION SCHEDULE.

HARDWARE REQUIREMENTS: 8K PET.

AVAILABLE FROM: Instant Software Inc. \$7.95

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PRODUCT NAME: Mortgage/Financier Product Code:0006P

MORTGAGE WITH PREPAYMENT OPTION/FINANCIER These two programs will more than pay for themselves if you mortgage a home or make investments: MORTGAGE WITH PREPAYMENT OPTION - Calculate mortgage payment schedules and save money with prepayments. FINANCIER - Calculate which investment will pay you the most, figure annual depreciation, and compute the cost of borrowing, easily and quickly.

HARDWARE REOUIREMENTS: 8K PET.

AVAILABLE FROM: Instant Software Inc. \$7.95

PRODUCT NAME: ISAM

A complete set of indexed sequential access method (ISAM) file handling routines. Written completely in assembly language, the 2K bytes of code support the following functions: CREATE a new ISAM file; OPEN an existing file; READ key and data from file; WRITE key and data to file; READNEXT key and data from file; DELETE key and data from file; and CLOSE file. Supports up to 5 open files simultaneously. Manual \$15.00 applicable toward purchase.

HARDWARE REOUIREMENTS: 16K CPU, Dual Disk Drive

AVAILABLE FROM: Creative Software \$99.95 plus \$3.50 shipping

PRODUCT NAME: General Ledger

(Requires Creative Software's ISAM package to run.) This is a full, real-time general ledger appropriate for use by businesses with yearly revenues up to \$5,000,000. Based on the Osborne series of business software, this package uses Creative Software's ISAM to provide true on-line general ledger. In addition to all the features of the Osborne package, a general journal of all GL entries is kept (up to 2680 on one disk) and listings of all entries for a particular account or time period may be obtained.

HARDWARE REOUIREMENTS: 32K CPU, Dual Disk Drive and 2022 Tractor Printer.

AVAILABLE FROM: Creative Software \$295.00 plus \$3.50 shipping

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PRODUCT NAME: Accounts Receivable

An easy-to-use, full-featured accounts receivable based on the Osborne series and Creative Software's ISAM, this package has all the capabilities typically needed by a small business. Reports include aging analysis, open items, closed items and customer range. Automatically posts invoices to the General Ledger, if implemented. Requires Creative Software's ISAM package.

HARDWARE REQUIREMENTS: 32K CPU, 4040 Disk Drive and 2022 Tractor Printer.

AVAILABLE FROM: Creative Software \$295. plus \$3.50

PRODUCT NAME: Accounts Payable

Based on the Osborne accounting packages, this set of programs covers the range of accounts payables, from purchase order entry to check writing. Reports include open items, aging analysis, and closed items. Automatically posts purchase orders to the General Ledger, if implemented. Requires Creative Software's ISAM package to run.

HARDWARE REQUIREMENTS: 32K CPU, Dual Disk Drive and 2022 Tractor Printer.

Available from: Creative Software \$295. plus \$3.50
shipping

PRODUCT NAME: Inventory

Using the Creative Software ISAM package, this set of inventory programs allows storage and retrieval with up to five part numbers. Reports include stock valuation, back order, overstocked, understocked, and activity report. Requires Creative Software's ISAM package to run.

HARDWARE REQUIREMENTS: 32K CPU, Dual Disk Drive and 2022 Tractor Printer.

AVAILABLE FROM: Creative Software \$295. plus \$3.50

PRODUCT NAME: General Ledger

A stand alone general ledger system for up to 300 accounts. Includes cash disbursements journal, cash receipts journal, and petty cash journal for simplified data entry. Fully prompted for operator ease. Accepts postings from accounts payable, accounts receivable,

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payroll, etc.

HARDWARE REQUIREMENTS: 32K CPU, Dual Disk Drive, and 80 column printer.

AVAILABLE FROM: CMS Software Systems, Inc. \$295.00

PRODUCT NAME: Accounts Payable

Maintains complete purchase records for up to 200 vendors. Invoice file accepts up to 400 invoices. Automatic application of credit memos. Check printing with full invoice detail. Can stand alone or be used to update the general ledger.

HARDWARE REQUIREMENTS: 32K CPU, Dual Disk Drive and 80 column printer.

AVAILABLE FROM: CMS Software Systems, Inc. \$195.00

PRODUCT NAME: Accounts Receivable

Customer file maintains purchase information for 300 customers. Maintains invoice file for 500 invoices, accomodates full or partial invoice payments, prints invoices and monthly statements. Can stand alone or be used to update the general ledger.

HARDWARE REQUIREMENTS: 32K CPU, Dual Disk Drive and 80 column printer.

AVAILABLE FROM: CMS Software Systems, Inc. \$195.00

PRODUCT NAME: Payroll

Maintains monthly- quarterly- and yearly totals for 100 employees. Payroll check printing with full deduction and pay detail. Prints payroll journal plus W2 and 941 forms. Can stand alone or be used to update the general ledger.

HARDWARE REQUIREMENTS: 32K CPU, Dual Disk Drive and 80 column printer.

AVAILABLE FROM: CMS Software Systems, Inc. \$350.00

BUSINESS

PRODUCT NAME: Mailing List

Maintains up to 1340 names and addresses. Primary and secondary sorting on any of five fields. Prints labels one up, two up, three up, or four up. Files can be read by wordpro for creating form letters.

HARDWARE REQUIREMENTS: 32K CPU, Dual Disk Drive, and 80 column printer.

AVAILABLE FROM: CMS Software Systems, Inc.

PRODUCT NAME: General Accounting System

A complete one disk accounting system for both large and small businesses. Includes general ledger, accounts payable, accounts receivable, with optional payroll. Prints invoices, monthly statements, accounts payable checks and payroll checks. Reports print either to printer or screen.

HARDWARE REQUIREMENTS: 8032 CBM, 8050 Disk Drive, Printer.

AVAILABLE FROM: CMS Software Systems, Inc. price to be announced

PRODUCT NAME: CE-1000 Product Code: 23125

A comprehensive cash register/inventory system with bar code reader. The complete system consists of bar code reader (wand), cash drawer, modular interface/tone board, ROM, diskettes, and complete documentation. Any of 2500 inventory items are instantly updated as scanned. Ten interactive programs produce a variety of management reports. Updates, searches, sorts and bar code routines in machine language. Inputs prompted and protected.

HARDWARE REQUIREMENTS: CPU, Disk Drive, Printer.

AVAILABLE FROM: Creative Equipment \$135.00

PRODUCT NAME: A/P-A/R. Job Cost & Estimating Product Code: 80-AC
-100

Enter, edit, delete, display and/or print the following; accounts payable aging report, accounts receivable aging report, accounts payable bank report, accounts receivable bank report. invoices, statements, vendors checks with stubs, job cost and job estimating. All above are interactive. Has many error traps to prevent

BUSINESS

bad input or breakout. Includes all customer & vendor addresses.

HARDWARE REQUIREMENTS: Contact Dealer.

AVAILABLE FROM: Computer House Div. \$310.00

PRODUCT NAME: Accounting Product Code: 80-ACC-2

Prints checks with 2 stubs. Prints comments such as; invoice numbers, date, check number and total on vendor's stub. Prints all above plus vendor's name on your stub. Prints vendor's complete name and address on check in the correct location for window envelope.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Computer House Div. \$25.00

RODUCT NAME: Inventory Product Code: 80-ACC-3

Enter, edit, delete, display and/or print any number of items as follows; 7 categories per diskette with up to 200 items per category and up to 6 facts per item. You can name the categories. Maximum 1400 items per diskette. Print out any item, any category or all items on a diskette. Print out total extended value of items on a diskette.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Computer House Div. \$95.00

PRODUCT NAME: Mailing List Product Code: 80-AC-4

Enter. edit, delete, display and/or print up to 950 addresses per diskette. Print labels or a listing for phone solicitation, etc. Includes; name- company name, division, street address, city, state, zip code and phone number. Allows 10 digits for new zip codes. Allows 10 digits for area code & phone.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Computer House Div. \$80.00

BUSINESS

PRODUCT NAME: Legal Accounting Product Code:80-A1

Complete client billing, provides fast billing, improved cash flow and more reliable/comprehensive information for better management. Handles up to 1200 active cases with any number of details per case. Recommended for an individual attorney or up to eight attorneys in one firm. Prints statements, case histories and trial balance.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Computer House \$1,200.

PRODUCT NAME: Legal Accounting Demo Product Code:80-A2

This is a demonstration diskette to help the dealer sell the complete version of our "legal accounting" program #80-A1. Limited to ten cases.

HARDWARE REQUIREMENTS: Contact Dealer.

AVAILABLE FROM: Computer House Div. \$15.00

PRODUCT NAME: Billing Manager Product Code:B&B-BM

This will solve your customers' billing problems. Program will handle 12-14 transactions per month per customer. 550 customers per disk. Also will handle the large accounts needing up to 200 transactions per month per customer. Program will print bills, age accounts, allows batch input of daily transactions and payments, prints a hardcopy of each customer's file for backup. User manual: \$5.00 (refunded with purchase).

HARDWARE REQUIREMENTS: 32K CPU, 2040 Disk Drive and 2022 or suitably interfaced ASCII Printer.

AVAILABLE FROM: Bits & Bytes \$125.00

PRODUCT NAME: Annual Report Analyzer

Computes and graphs 5 year growth in sales, profits and earnings. Includes average and compound growth, PE ratio, profit margins, return on equity, payout ratio, implied growth, yield, debt/equity and much more!

HARDWARE REQUIREMENTS: 8K CPU

AVAILABLE FROM: United Software Of America \$22.95

BUSINESS

PRODUCT NAME: Kram & Super Kram

KRAM 2.0 Regular Features

- written in 6502 machine code basic compatible
- create/open a dataset
- put record by key
- add & delete records by key
- get any record by full/partial key
- access by any key in as little as 2 seconds
- supports multiple disks
- read next or previous record
- dynamic space allocation
- dynamic space reclamation
- dynamic index compression
- files never need reorganization
- compatible with language systems

SUPER KRAM'S Added Features

- Multikey Support - Allowing simultaneous access to a Kram file by more than one key field.
- Hi-Speed Read - This feature allows increased I/O speed up to 60% faster during processing of Super Kram read next, read previous, put and delete requests.
- Improved Index Architecture - Allowing faster index searches and more efficient disk space utilization.
- Integrated Basic Commands - Allowing Super Kram commands to be coded in-line with Basic, providing easier usage of Kram than ever before.
- User-Specifiable Buffer Pool - Allowing the user to specify how many Kram files are allowed open at one time; will support any number of Kram files.

HARDWARE REQUIREMENTS: 16K CPU and 2040. 8050 Disk Drive.

AVAILABLE FROM: United Software Of America

Kram 2.0 - \$ 99.95
Super Kram - \$175.00

PRODUCT NAME: VisiCalc(tm)

Product Code:209105

VisiCalc is an "electronic worksheet" which allows the user to build mathematical or financial models - or handle any other calculations which lend themselves to row-and-column analysis. After the model is set up, changing any number also changes any other number dependent on it. "What if ..." analysis becomes incredibly easy.

HARDWARE REQUIREMENTS: PET/CBM 8032 or 2001, 8050 or 4040 Disk Drive.

AVAILABLE FROM: Personal Software

\$199.95

BUSINESS

PRODUCT NAME: MIS (Service Firms)

(Management Information System). This powerful business system for service firms contains the following: General Ledger with 375 accounts, ten departments with the accompanying revenue and expense accounts; Accounts receivable file with maintenance and report capabilities (1000 accounts); Payroll with all federal withholdings computed, state and local computation capabilities for all fifty states (100 employees); Cash Receipts and Cash Disbursement programs that keep track of inventory, sales by department, sales tax computations, receipts and invoices; Accounts Payable file with maintenance and report capabilities (100 accounts) and the like. Finally, the system generates and prints valuable management reports like Departmental Budgeting, P&L Statements by department, Contribution Margin by department, the traditional Chart of Account Summation (Trial Balance), and Financial reports.

HARDWARE REQUIREMENTS: 8032 CPU, 8050 Disk Drive and almost any printer.

AVAILABLE FROM: Management Accountability Group Contact Dealer

PRODUCT NAME: MIS (Retail/Wholesale Firms)

This system incorporates many of the same features of the Service Firm Management Information system. In addition it includes a perpetual inventory control system and it contains a price look up procedure and permits point of sales invoices. All files are fully integrated.

HARDWARE REQUIREMENTS: 32K CBM/PET, 2040, 4040 or 8050 Disk Drive depending on version, almost any printer.

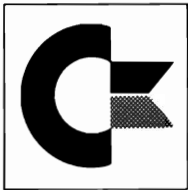
AVAILABLE FROM: Management Accountability Group Contact Dealer

WORD PROCESSORS

PRODUCT NAME:

Wordcraft 80

Product Code: 500020



Word Processing is the most significant method of cutting typing costs and Wordcraft 80 turns your Commodore Microcomputer into a professional word processor. This program is designed for the typist and incorporates many unique features, not the least of which is the absence of "wrap-around." Unlike any other word processor program, with the Wordcraft 80 what you see is what you get. Unless you pay literally twenty or thirty times the price this feature alone is unmatched in any system currently available. The multitude of other features allows you to easily create and edit text. Control characters are not present on the screen to allow a clear view of what will be printed. Of course these characters can be called up by special commands. Among the many features of Wordcraft 80 are:

- * up to 117 character line lengths with up to 98 line pages
- * Tabs, indentations, right justification, decimal justification, and decimal columns
- * Centering
- * Auto page numbering, headers, trailers, (even book style - alternate left and right page)
- * Character, word and block insertion and deletion
- * Block movement and/or reproduction to another location anywhere in the text
- * Text merging to form documents
- * Merging of form letters with fill files
- * Sets up for single sheet or continuous paper
- * Half line spacing for sub and superscripts
- * Will underline or print boldface along with variable line and character spacing
- * Background printing allows printing while editing
- * Global printing permits automatic sequential printing of chapters
- * Will handle "foreign" data files and data bases and Visicalc files

In addition, Wordcraft 80 supports all major "daisywheel" printers as well as dot matrix types including the entire Commodore range. It will output onto disk in ASCII format for use by other programs. This facility is primarily intended for use with the MUPET systems. Also all disk housekeeping is accomplished within the program. The program comes with a most comprehensive manual and training cards.

HARDWARE REQUIREMENTS: 8032 CPU, 4040 or 8050 Disk Drive and most letter quality printers.

AVAILABLE FROM:

Commodore Dealers

\$395.00

WORD PROCESSORS

PRODUCT NAME: WordPro 1 Product Code:WP1

WordPro 1 is the first program in the WordPro family of word processing programs that has been available for over two years. Word Pro 1 is a cassette based word processor that offers basic text editing, (to include Inserting, Deleting, Margin Control and Tab Setting) and document printing capabilities. WordPro 1 is ideal for students and hobbyists, who need basic word processing capabilities to enhance their productivity. It creates an extremely low cost system that is very easy to learn and operate.

HARDWARE REQUIREMENTS: 8K PET, Cassette and Printer.

AVAILABLE FROM: Professional Software Dealers \$ 30.00

PRODUCT NAME: Word Pro 2Plus Product Code:WP2 Plus

WordPro 2 Plus is a versatile, easy to use program designed for the entire line of Commodore computers. The cassette contains two programs, one each for the 40 and 80 column CPU's. The disk version will automatically load the correct program. Both cassette and disk programs are self-configuring for either 16K or 32K memores. An excellent package for students, educational institutions and professionals, providing the flexibility of moving a from cassette to a disk based system.

HARDWARE REQUIREMENTS: 16K CPU, cassette or 2040 or 4040 Disk and printer.

AVAILABLE FROM: Professional Software \$200.00

PRODUCT NAME: WordPro 3 Product Code:WP3

Developed especially for Commodore Computers, WordPro 3 turns you CBM computer into a highly sophisticated word processor. WordPro 3 offers exceptional text editing, document storage, and letter quality printing capabilities considered important to sophisticated word processing. A few of the more advanced features include Global Search and Replace, Automatic Page Numbering, Repagination and the ability to link files of text to produce long continuous documents. With the system created by WorPro 3, any business would benefit from the increased productivity inherent to word processing. Compared with other available systems, many of which cost up to twice as much, WordPro 3 is well documented,

WORD PROCESSORS

unusually easy to learn, and just as easy to operate.
HARDWARE REQUIREMENTS: 32K CPU, 2040, 4040 or 8050 Disk Drive and any suitably interfaced letter quality Printer.

AVAILABLE FROM: Professional Software Dealers \$250.00

PRODUCT NAME: WordPro 3 Plus Product Code:WP3 Plus

Incorporates all the features of WordPro3, and in addition, add subscripts, superscripts, boldface type, variable pitch, variable line spacing, exit to basic, pause and amth functions. The pause command allows the operator to change thimbles in the middle of a document. Available in the manual is a section for programmers explaining many items of interest including the creation of sequential files. While WordPro3 plus is an excellent word procession tool for professionals, the structure of files created by WorPro 3 Plus facilitates transmission of these files via communications packages, and these files are compatible with many other software packages on the market.

HARDWARE REOUIREMENTS: 32K CPU, 2040, 4040 or 8050 Disk Drive and 2022, 4022 or any suitably interfaced letter quality ASCII Printer.

AVAILABLE FROM: Professional Software Dealers \$295.00

PRODUCT NAME: Word Pro 4 Product Code:WP4

Developed specifically for Commodore's 80 Column computer. WordPro 4 offers exceptional text editing, document storage, and letter quality printing capabilities to any business whose needs would benefit from the increased productivity inherent to sophisticated word processing. Functional categories include Editing, Document Formatting, Document Manipulation, File Handling, Disk Commands and Programmers notes. WordPro 4 includes all the features of WordPro 3 and, in addition has the ability to begin printing from any page and the powerful option to view documents on the screen to see how the document will appear before final printing.

HARDWARE REOUIREMENTS: 8032 CBM, 2040, 4040 or 8050 Disk Drive, and 2022, 4022 or suitably interfaced letter quality ASCII printer.

AVAILABLE FROM: Professional Software Dealers \$375.00

WORD PROCESSORS

PRODUCT NAME: Word Pro 4 Plus Product Code:WP4 Plus

Word Pro 4 Plus, a state-of-the-art word processor, is the best seller of all the word processors for the Commodore computer. WordPro 4 Plus incorporates all the features of WP1, WP2 Plus, WP3 Plus and WP4. In addition, the valuable features of Simultaneous Input/Output and math functions have been added along with the ability to have multi-user systems.

HARDWARE REQUIREMENTS: 8032 CBM, 2040, 4040 or 8050 Disk Drive, and 2022. 4022 or suitably interfaced letter quality ASCII printer.

AVAILABLE FROM: Professional Software Dealers \$450.00

PRODUCT NAME: Paper-Mate Word Processor

A full featured word processor. Paper Mate incorporates 60 commands to give you full screen editing with graphics. For writing text, Paper Mate has a definable keyboard so you can use either business or graphics machines. Paper Mate text editing includes floating cursor, scroll up or down, page forward or back and repeating insert and delete keys. Text Block handling includes transfer, delete, append, save, load, and insert. All formatting commands are imbedded in text for complete control. Unlike most word processors, PET graphics as well as text can be used. Paper Mate can send any ASCII code over any secondary address to any printer. Manual separate \$1.00

HARDWARE REQUIREMENTS: 16K minimum, specify your equipment when ordering.

AVAILABLE FROM: A B Computers \$39.95 on tape with manual
\$42.95 on disk with manual

PRODUCT NAME: CmC WPP8 / WPP16/32 Product Code: WPP8 WPP16/32

This program permits composing and printing letters, flyers, advertisements, manuscripts, etc. Printing directives include line length, line spacing, left margin, centering and skip. Edit commands allow you to insert lines, delete lines, move lines and paragraphs, change strings, save files onto and load files from cassette (can be modified for disk), move up, move down, print and type. Added features for the 16/32K version include string search for editing, keyboard entry during printing for letter salutations, justification, multiple printing and more.

HARDWARE REQUIREMENTS: Specify 8 or 16/32 PET, Printer.

AVAILABLE FROM: Connecticut microComputer CmC WPP8 \$29.50
CmC WPP16/32 \$39.50

WORD PROCESSORS

PRODUCT NAME: PETWORD

Capabilities include upper/lower case, string search and replace, margin setting, centering, automatic paging, text fill and justification; and many other fetures found on commercial word processors. Manual is available separately for \$5.00 and may be applied toward purchase of program.

HARDWARE REQUIREMENTS: Contact dealer.

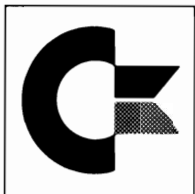
AVAILABLE FROM: Creative Software \$49.95 plus \$1.50
shipping

UTILITIES

PRODUCT NAME:

Compiled Integer Basic

Product Code: 400030



This program which includes both disk based and resident Compilers allows the user to produce, quickly and easily, machine language programs either sufficient in themselves or to be called as subroutines from interpreted BASIC. A machine language code compiled under the Compiled Integer Basic program will execute up to 100 TIMES FASTER than the same code written entirely in BASIC! A number of options are provided to facilitate the linking of compiled and interpreted programs and the user is given full control over all aspects of the compilation process. Programs may be developed and executed in resident mode while both compiler and editor are in memory and the technique used to do this has been made as straightforward as possible. Programs using the full capacity of the computer can be developed under the disc compiler using the text editor supplied. The interactive program development characteristic of an interpreter and the execution efficiency of a compiler have been preserved together to the greatest extent possible. Particular attention has been given I/O handling with the inclusion of extended logical file commands and many bit level features. The user is cautioned that the version of BASIC is somewhat different from the PET BASIC and he should familiarize himself with the language initially.

HARDWARE REQUIREMENTS: 8032 or 4032 CPU and 8050 or 4040 Disk Drive.

AVAILABLE FROM:

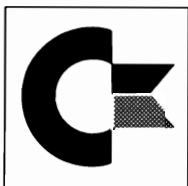
Commodore Dealers

\$149.95

PRODUCT NAME:

Assembler Development Package

Product Code: 400020



This utility package has all the tools required for the creation and maintenance of 6502 machine language programs. Included are the following: Editor, which aids in the creation and modification of source programs; Assembler, which generates object code, listing, symbol table, and crossreference; Loader, which loads assembled object files into RAM for execution; Extra Mon, extended monitor for greater flexibility in testing assembly programs. This assembly program is used by Commodore Business Machines to write all system firmware. In addition, the assembler can link files and has libraries to enable the user to build modules and assemble them as required. There are also four function math and conditional assembly features.

HARDWARE REQUIREMENTS: BASIC 3.0 or 4.0 CPU and any CBM Disk Drive.

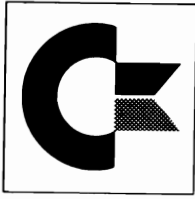
AVAILABLE FROM:

Commodore Dealers

\$99.95

UTILITIES

PRODUCT NAME: TCL Pascal Development System Product Code: 400010



TCL Pascal is an implementation of the standard Pascal designed for small computers with as little as 32K bytes of memory. It offers all the features of this powerful language together with some useful enhancements for the personal computer user.

This version has two modes of operation. In its simplest mode, the Pascal compiler co-resides in RAM with the user's program. This is ideal for learning the language or writing small programs which do not need the disk. Most Pascal commands are available in this mode except those involving disk files. For more complex programs the disk-based compiler can be used to give the full power of the language.

HARDWARE REQUIREMENTS: CBM 32K, 4040 disk

AVAILABLE FROM: Commodore Dealers \$295.00

PRODUCT NAME: KMM PASCAL for PET

Compiles rapidly and translates to true machine code. Object code executes much faster than the typical P-Code PASCAL Compiler Interpreters. It's a subset of Standard Pascal (Jensen, Wirth) for PET.

Included in package:

- Machine Language Pascal Source Editor
- Machine Language Compiler (generates P-code)
- P-Code to machine language translator (produces optimized machine language object code - not just a P-Code Interpreter)
- P-Code Interpreter (for debugging and learning)
- Run-time package
- User Manual
- Sample programs

HARDWARE REQUIREMENTS: Versions available for ROMs 2.0 (cassette only), 3.0, 4.0. Requires 16K minimum.

AVAILABLE FROM: AB Computers \$75.00

PRODUCT NAME: Tiny Pascal

Tiny Pascal is a subset of the full Pascal language as defined by Jensen and Wirth. Tiny Pascal brings you the structured programming constructs:

IF-THEN-ELSE
WHILE-DO
CASE-OF-ELSE
REPEAT-UNTIL
FOR-TO/DOWNTO-DO
PROCedures/FUNCTions

UTILITIES

Tiny Pascal gives you integer variables, single dimension arrays, and character constants. Variables and constants may be passed as arguments to procedures and functions. The procedures and functions may be recursive. Additionally, the MEM function may be used as PEEK and POKE to access memory.

Tiny Pascal is a complete package consisting of:

- LINE EDITOR - to create, save and modify Tiny Pascal source language statements
- P-code COMPILER - to translate the source language statements into a machine equivalent program
- P-code INTERPRETER - to execute the compiled P-code by having the PET simulate a zero-address, 16-bit, stack-oriented computer
- Sample programs - to test out the Tiny Pascal system
- Comprehensive USER's Manual

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM:	Abacus Software	\$40.00	ppd	cassette
		\$35.00	ppd	diskette

PRODUCT NAME: F.E.T./Recover 4.0 Product Code: 80-P1

File editing tools consisting of eleven commands. Examine data files, fix destroyed pointers; sectors may be read, modified, displayed or written. Also, files may be re-chained.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Computer House Div. \$65.00

PRODUCT NAME: Sof-BKUP 2.0 Product Code: 80-P2

Copy diskettes faster than normal disk copy. Copies all allocated blocks including random files. Displays error messages for all bad blocks.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Computer House Div. \$40.00

PRODUCT NAME: Super-RAM Product Code: 80-P3

Diagnostic Routine checks every possible RAM address against every other RAM address on 8-32K PET/CBM Computers.

UTILITIES

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Computer House Div. \$20.00

PRODUCT NAME: Vari-Print Product Code:80-P4

Prints a listing of all variables in a program alphabetically and/or numerically. Prints every line number where each variable occurs. Also leaves space for the programmer to write in a comment or function of each variable.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Computer House Div. \$25.00

PRODUCT NAME: Docu-Print Product Code:80-P5

Prints anything displayed on CRT out to Printer. This program is written in Basic and may be inserted into your program.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Computer House Div. \$20.00

PRODUCT NAME: Screen Dump/Repeat Product Code:80-P6

Prints anything displayed on CRT out to Printer. Very fast machine language program. This routine may not be inserted in a program, but may be accessed by it. Repeat function allows you to hold any key (including cursor control keys) to Repeat, similar to the Repeat function on the 8032 CBM Computer.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Computer House Div. \$35.00

PRODUCT NAME: Trace-Print Product Code:80-P7

Prints a listing of all line numbers in order of execution as the program is operated.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Computer House Div. \$25.00

UTILITIES

PRODUCT NAME: Scrunch Plus Product Code:80-P8

Packs a program to save up to 25% of memory space. DO NOT use this on program source code, only on a copy. After scrunching a program you cannot edit that copy. HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Computer House Div. \$25.00

PRODUCT NAME: Sorter Product Code:80-P9

Sorts a one dimensional array alphabetically (written in machine language). HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Computer House Div. \$35.00

PRODUCT NAME: Softpac-1 Floppy or Cassette Product Code:Softpac-1
F or C

This package contains 17 programs on Cassette or 18 programs on Disc. It includes Back-up copies on separate cassette or disc. Program Listings are included in a Poly Notebook with Software. Best sellers such as Memory Test, Loans, Savings, Electricity Cost, Quiz Master, Othello, Othello/2, Strategy, Bounce, Chase, Breakout, and Tank. Some of the programs have Sound. Programs are Menu-driven. HARDWARE REQUIREMENTS: Works on OLD ROMS, NEW ROMS, and RETRO-FIT ROMS.

AVAILABLE FROM: Competitive Software \$34.95 + \$2.00 Ship.
(Foreign 10%)

PRODUCT NAME: Hexdec

Tired of converting numbers to decimal or vice-versa? This is an extremely useful utility program to do the work for you (without making mistakes), at a price that is hard to beat.

AVAILABLE FROM: Tycom Associates \$5.95

PRODUCT NAME: Micro Text Editor Product Code:SW-4

A cassette-file, line-oriented text editor that allows insertion, deletion and modification of upper- and

UTILITIES

lower-case alphabetic and numeric strings. Modification is done with cursor control keys. Useful for maintaining data files.

AVAILABLE FROM: Total Information Services \$24.95 cassette

PRODUCT NAME: On Line Product Code: PET Term

Sets up your modem to talk to any other computer. Send and receive information. Incoming information can be stored in the computer. on the disk or printed. In use now with the Source and the Colorado State University Cyber. Easy to use, but extremely versatile.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Micro Computer Industries, Ltd. \$39.95

UTILITIES

PRODUCT NAME: MAILB - Mailing List Program Product Code:SW-1

This program allows you to add, delete, correct, and display mailing lists entries. Entries are stored on cassette and can be printed on your hard copy device.

HARDWARE REQUIREMENTS: 8K PET/CBM with one cassette. 16K/32K PET/CBM also supported. A version is available that stores entries on floppy disk (2040).

AVAILABLE FROM: Total Information Services \$24.95 cassette
\$29.95 diskette

PRODUCT NAME: Mail List Product Code:010

User can enter of 4 lines with 40 characters per line. The title of each line can be changed to suit its use. Complete search features for each line are included. Complete on screen editing, insert, delete, and type over, coupled with editing of each group. No need to type an entire line to make corrections or change a price, or add a number. All or any data can be printed by a printer. All data can be stored on tape or disk and loaded from either.

HARDWARE REQUIREMENTS: 8K+ PET/CBM with disk or tape.

AVAILABLE FROM: P. S. Software House \$9.95

PRODUCT NAME: Toolkit Mover Product Code:021

You can use The Basic Programmers Toolkit and Commodore's Word Processor or Computhink Disk at the same time. The Toolkit Mover will relocate your toolkit to any free RAM memory area. The program can then be saved on tape or disk and reloaded again at any time. Available on tape. Please indicate old or new ROMS.

AVAILABLE FROM: P. S. Software House \$24.95

PRODUCT NAME: 6502 Disassembler and Peek A Boo Product Code:011

Disassemble ROMS and Machine Language programs. Double check hand assembled programs. Disassemble Basis ROMS in your PET. Peeks at your memory and displays 25 successive addresses in ASCII, HEX, Decimal and actual characters.

AVAILABLE FROM: P. S. Software House \$12.95

UTILITIES

PRODUCT NAME: Machine Language Utility Pac Product Code:015

Includes an Extended Monitor, Disassembler, a Tape Relocate, Screen Dump onto a Printer, HEX/Decimal conversion, and Machine Language Relocate; Renumber and Merge which are used with Basic programs. The Utility Pac comes with a combination of a Basic and a Machine Code program designed to relocate the Utility Pac to any location in memory.

AVAILABLE FROM: P. S. Software House \$15.00

PRODUCT NAME: ULTRA-MON Product Code:020

Adds 31 Commands to the Machine Language Monitor. The most complete and powerful package of utility programs on the market!

Commands are:

- Disassembler
- Integrate
- Quick Trace
- Memory Test
- Printer Off (equivalent to Print #4)
- Transfer with Address Updating
- HEX to Decimal & ASCII
- ASCII to HEX & Decimal
- l's Compliment
- Single Line Assembler
- Fast Type
- Address Correction
- Screen Dump to Printer
- Compare
- Transfer
- Data Correction
- Printer On (equivalent to open4,4)
- Convert from HEX to Decimal
- Convert from Decimal to HEX
- Decimal to ASCII & HEX
- Auto Cursor
- Inverse
- Hunt
- Walk
- Fill
- Brake
- HEX +
- HEX OR
- HEX FOR
- HEX AND
- HEX -

AVAILABLE FROM: P. S. Software House \$29.95

UTILITIES

PRODUCT NAME: File Product Code:307

General purpose file system using PET's cassette file ability. Commands include: LOAD, SORT, PRINT, ADD, REMOVE, CHANGE, and DUMP. Let PET keep track of your birthdays, bills, or any other list of items. This quality package includes program on cassette and documentation.

AVAILABLE FROM: Kinetic Designs \$5.95

PRODUCT NAME: Spooler Product Code:606

For under \$50 you can add hardcopy to PET by using a BAUDOT teletype and this ASCII-to-BAUDOT converter program. Interface uses only 2 transistors. This quality software package includes program on cassette and documentation.

AVAILABLE FROM: Kinetic Designs \$5.95

PRODUCT NAME: Visible Memory Routines

Machine language software easily accessible by BASIC. Package includes clear screen, plot-a-point, line draw, and ROSE drawing programs. Other programs available to run with VM Routines: VM LISS-3D Space Art, VM Spirals, VM 3D Plots, (same 3D images as seen in many MTU ads.)
HARDWARE REQUIREMENTS: This package requires Micro Technology's Visible Memory Board and an 8K old ROM PET.

AVAILABLE FROM: Kinetic Designs \$7.95

UTILITIES

PRODUCT NAME: List Manager Product Code:B&B-LM

Program allows the user to set up a list consisting of five or fifteen fields. Programs allows user to add to list, print list, scratch from list, correct list, sort list (any field), screen scroll and save list (many lists can be made). The well-documented program will also handle multiple-field searches. User manual: \$5.00 (refunded with purchase).

HARDWARE REQUIREMENTS: 8-32K PET/CBM with 2040/4040

AVAILABLE FROM: Bits & Bytes \$84.95

PRODUCT NAME: FORTH +

A full-featured FORTH with enhancements. Easy to use.

- conforms to FORTH Interest Group Standards
- cross compiler to produce either standard object modules or self contained ROMable modules
- built in macro conditional assembler
- complete string processing capabilities (including variable length strings)
- disk virtual memory for large programs (or small systems!)
- arrays (single or multiple dimensioned)
- full screen cursor controlled editor
- floating point and integer processing
- User's Guide and documentation

A product of IDPC Company

HARDWARE REQUIREMENTS: 16K available RAM and one disk drive.

AVAILABLE FROM: AB Computers \$65.00

PRODUCT NAME: EARL for PET - Editor, Assembler, and Relocator/Linker

Disk based assembler, editor producing relocatable object code. Editor can edit files larger than memory.

ASSEMBLER FEATURES:

- 2 Pass Assembler
- Generates Relocatable Object Code
- Uses standard MOS Technology mnemonics
- Disk file input
- Listing output to screen or printer

RELOCATOR/LINKER CAPABILITIES:

- Relocates assembler output to desired memory location
- Resolves symbols declared external in assembly
- Links multiple object programs as one memory load

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: AB Computers \$65.00
(with User Manual)

ENGINEERING AIDS

PRODUCT NAME: Beams Product Code:80-Eng-1

Compute stress and deflection of a beam if given; length, support and load conditions, shape and dimensions (sq., rect., round, or I). Also this program can recommend the proper American standard I-beam if given; length- support and load conditions and maximum deflection permissible.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Computer House Div. \$115.00

PRODUCT NAME: Trig/Circle Tangent Product Code:80-Eng-2

Compute any unknown side (to 5 decimal places) or any unknown angle (degrees, minutes and seconds) of any triangle. Compute tangent points between a circle and a line or between one or two lines and two circles. Answers for tangent problems are shown in X-Y or Z-X coordinates. Also converts degrees to radians or radians to degrees.

HARDWARE REQUIREMENTS: Contact Dealer.

AVAILABLE FROM: Computer House Div. \$110.00

PRODUCT NAME: Bolt Circle Product Code:80-Eng-4

Compute X-Y coordinates (to 5 decimal places) for any number of equally spaced points on a given diameter circle. First location is on the right horizontal center line unless you define an offset above or below in inches or degrees-minutes-seconds. All dimensions are in inches to 5 decimal places.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Computer House Div. \$25.00

PRODUCT NAME: Spur Gears Product Code:80-Eng-3

Computes; outside diameter, pitch diameter, circular pitch, measurement over wires, chordal thickness, arc tooth thickness, involute of an angle and center distance for full depth or stub tooth external gears.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Computer House Div. \$35.00

ENGINEERING AIDS

PRODUCT NAME: Machine Part Quoting (8-machines) Product Code:80-Eng-5

Compute time and material for parts made in a machine shop using conventional machine tools. Enter all dimensions, type of tool. material analysis, hardness, horsepower of equipment, price per pound of material, efficiency. Computes speeds, feeds, and number of cuts. Accuracy of the finished part (on every dimension) is computed to arrive at the quoted price.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Computer House Div. \$280.00

PERSONAL AIDS

PRODUCT NAME: Decorator's Assistant Product Code:0104P

This integrated set of five programs will compute the amount of materials needed to redecorate any room, and their cost. All you do is enter the room dimensions, the number of windows and doors, and the base cost of the materials. These programs can handle wallpaper, paint, panelling, and carpeting, letting you compare the cost of different finishing materials.

HARDWARE REQUIREMENTS: 8K PET

AVAILABLE FROM: Instant Software \$7.95

PRODUCT NAME: Finance

A variety of useful financial formulas in one simple, easy-to-use program. Includes: compound interest, discounts, nominal and effective interest, annuities, loans, depreciation and earned interest table.

HARDWARE REQUIREMENTS: 8-32K PET

AVAILABLE FROM: United Software Of America \$12.95

PRODUCT NAME: Checkbook

Balance your checkbook! A cash receipts and disbursements program that will make it a breeze to keep accounts, and up-to-date records. Checks may be sorted by type: eg. medical, legal, tax-deductible, rent, food, etc. Facilities for cassette storage of data.

HARDWARE REQUIREMENTS: 8-32K PET

AVAILABLE FROM: United Software Of America \$15.95

PRODUCT NAME: Stock Options

Follows Black-Scholes model for computing theoretical value of a call option. Creates charts of option values based on stock prices and days to expiration.

HARDWARE REQUIREMENTS: 8-32K PET

AVAILABLE FROM: United Software Of America \$24.95

PRODUCT NAME: Mortgage

Your computer will calculate and optimize your mortgage payments. Includes: principle and interest paid to

PERSONAL AIDS

date, outstanding principle and interest, mortgage equity, monthly mortgage payments, interest and principle for any month, and much more.
HARDWARE REQUIREMENTS: 8-32K PET

AVAILABLE FROM: United Software Of America \$15.95

PRODUCT NAME: Annual Report Analyzer

Computes and graphs 5 year growth in sales, profits and earnings. Includes average and compound growth, PE ratio, profit margins, return on equity, payout ratio, implied growth, yield, debt/equity and much more!
HARDWARE REQUIREMENTS: 8-32K PET

AVAILABLE FROM: United Software Of America \$22.95

PRODUCT NAME: Checkbook Reconciliation

Designed for ease of use and to find those troublesome checkbook errors, this program balances your checkbook and bank statement from month to month. It locates over ten different types of errors and instructs the user on correcting them. including bank statement errors made by your bank. Records data on cassette for next month's balancing - saving re-entry of figures.
HARDWARE REQUIREMENTS: 8K PET or CBM's.

AVAILABLE FROM: Sawyer Software \$25.00 (cassette)

PRODUCT NAME: Schedule Planner

Schedule Planner can be used by secretaries, receptionists, housewives or anyone wanting to plan and have at their fingertips their own schedule. Data entered is date, time, priority and description. The commands allow the schedule to be shown for a particular day, request of time or the "viewing" of appointments according to importance.
HARDWARE REQUIREMENTS: 8K PET or CBM's

AVAILABLE FROM: Sawyer Software \$15.00

PRODUCT NAME: Accounting Assistant Product Code: 0048P

This package will help any businessman solve many of those day-to-day financial problems. Included are:

PERSONAL AIDS

LOAN AMORTIZATION SCHEDULE - This program will give you a complete breakdown of any loan or investment. DEPRECIATION SCHEDULE - You can get a depreciation schedule using anyone of the following methods: straight line, sum of years-digits, declining balance, units of production, or machine hours.
HARDWARE REQUIREMENTS: 8K PET

AVAILABLE FROM: Instant Software Inc. \$7.95

PRODUCT NAME: Mortgage/Financier Product Code:0006P

MORTGAGE WITH PREPAYMENT OPTION/FINANCIER. These two programs will more than pay for themselves if you mortgage a home or make investments: MORTGAGE WITH PREPAYMENT OPTION - Calculate mortgage payment schedules and save money with prepayments. FINANCIER - Calculate which investment will pay you the most, figure annual depreciation, and compute the cost of borrowing, easily and quickly.
HARDWARE REQUIREMENTS: 8K PET

AVAILABLE FROM: Instant Software Inc. \$7.95

PRODUCT NAME: Mailing List

Maintains up to 1340 names and addresses. Primary and secondary sorting on any of five fields. Prints labels one up, two up, three up, or four up. Files can be read by WORDPRO for creating form letters.
HARDWARE REQUIREMENTS: 32K PET/CBM, 4040 disk drive, and any 80 column printer.

AVAILABLE FROM: CMS Software Systems, Inc.

PRODUCT NAME: Checkbook Product Code:SW-2

This program has many checkbook and budget applications: assists in balancing a checkbook; selects and lists checks by person, purpose, or date; sums checks by category or person. Price includes 64 page manual.
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Total Information Services \$24.95 cassette
\$29.95 diskette

PERSONAL AIDS

PRODUCT NAME: Mail List Product Code:010

User can enter 4 lines with 40 characters per line. The title of each line can be changed to suit its use. Complete search features for each line are included. Complete on screen editing, insert, delete, and type over- coupled with editing of each group. No need to type an entire line to make corrections or change a price, or add a number. All or any data can be printed on a printer. All data can be stored on tape or disk and loaded from either.

HARDWARE REQUIREMENTS: 8K+; available on disk/tape

AVAILABLE FROM: P. S. Software House \$9.95

PRODUCT NAME: Home Utilities Product Code:013

Includes 4 different categories: Loans- compounds interest on loans. Savings- projects interest, compounds daily- monthly- yearly- Miles-per-Gallon- figures mileage. Electricity- figures cost per kilowatt per appliance daily. monthly. yearly.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: P. S. Software House \$9.95

PRODUCT NAME: Electric Bill Product Code:310

Electric Bill is a Household utility program designed to predict what your next month's electric bill is going to be BEFORE you use the electricity. By using this program weekly, you can watch your consumption rate, cutting back when necessary. Software package comes with BASIC program on cassette and documentation.

HARDWARE REQUIREMENTS: For 8K+ (old or new ROMs)

AVAILABLE FROM: Kinetic Designs \$4.95

PERSONAL AIDS

PRODUCT NAME: SCBP-PET Disk Product Code:33-0

76 programs of financial, statistical and general applications written in PET Basic and loaded on a 5 1/4" floppy disk. Guaranteed to run. Published with operating instructions. Additional documentation available in book form.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Osborne/McGraw Hill \$22.50

PRODUCT NAME: SCBP-PET Cassette Product Code:25-X

76 financial, mathematical, scientific and general interest programs for PET computers. Ready and guaranteed to run. Cassette comes with loading instructions. Additional documentation available.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Osborne/McGraw-Hill \$15.00

PRODUCT NAME: Household Finance I & II

These two programs are designed to be of general utility in recording and analyzing household expenditures and income. Part I is used to input and list budget items, update, add, change and delete previously input items on a cassette tape. Provides for the following summaries: year-to-date, single month, and single item. Graphs a spending profile. (cassette)

HARDWARE REQUIREMENTS: 8-32K

AVAILABLE FROM: Creative Software \$19.95

PRODUCT NAME: File Product Code:307

General purpose file system using PET's cassette file ability. Commands include: LOAD, SORT, PRINT, ADD, REMOVE, CHANGE, and DUMP. Let PET keep track of your birthdays, bills, or about any other list of items.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Kinetic Designs \$5.95

PERSONAL AIDS

PRODUCT NAME: Home Addresser

Handles standard 3-line address and telephone number. Replaces manually kept address books. Functions include: Update, Search, Delete, List, Printer, Add, Sort on last name, and Save. Each file can contain up to 255 entries with 32K memory.
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Harry H. Briley \$25.00

PRODUCT NAME: Delux Addresser

Handles mailing labels (1 or 2 up), a 4-line address and telephone number. It has eight user defined address flags. Sorts either by Zip, company name or address flag. It will also properly sort intermixed foreign, domestic zips and the new 9-digit zip. Included are the same basic functions as Home Addresser. Each file can have up to 224 addresses with 32K.
HARDWARE REQUIREMENTS: Minimum 16K

AVAILABLE FROM: Harry H. Briley \$40.00

PRODUCT NAME: Inventory

Keep track of valuables for insurance purposes or whenever an accounting of material is required. Each entry records the make, model, serial#, color, and value. Program includes same basic functions as Home Addresser. Sorts either by Item or Value.
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Harry H. Briley \$20.00

PRODUCT NAME: Shopper

Handy memory device that allows recall of previous sales for comparison with current sales. Each entry records the brand, store, price, units and date. It includes the same basic functions as Home Addresser. Sorts either by Item or Store. Author made it pay for itself when shopping for best sales on motor oil and auto parts.
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Harry H. Briley \$20.00

PERSONAL AIDS

PRODUCT NAME: Grocery Mart

User 'programs' favorite grocery store. Data contains aisle name, item, last known price, and tax rates. While at home, the family shopper selects the items desired. The program then groups similiar products, prints out a list by isle, with price of items, total, tax, coupons used and blank lines for last minute purchases. Audit checkstand accuracy. track price changes, and cut grocery costs by becoming a price conscious shopper.

HARDWARE REQUIREMENTS: 8K PET

AVAILABLE FROM: Harry H. Briley \$15.00

PRODUCT NAME: Dinner's On!

Pre-record favorite dinners and let this program pick a meal plan for 25 days. Desserts picked separately. Also prints sorted shopping list. Useful for home, frequent camping trips, or sack lunch variety. High adventure on the dinner plate!

HARDWARE REQUIREMENTS: 8K PET

AVAILABLE FROM: Harry H. Briley \$15.00

PRODUCT NAME: LeagueBowl-24

Bowling association scorer for up to 24 teams or two separate conferences of up to 12 teams each. Features include 'snapout' displays, absentee adjustments, 21-game handicapping, make-up or delayed games, separate men and women award structuring, 3-way ties, ten concurrent team members allowed, easy editing, instant team statistic sheets and weekly scheduling aids. Data can be entered in several sittings as one feature of many to aid you.

HARDWARE REQUIREMENTS: 32K PET (new ROMs), 2040 Disk

AVAILABLE FROM: Harry H. Briley \$145.00

PRODUCT NAME: LeagueBowl-12

Cassette version of above that handles 12 teams using the same data scheme as the Disk version. This allows easy switching to Disk version without losing any data.

HARDWARE REQUIREMENTS: 16K PET (new ROMs).

AVAILABLE FROM: Harry H. Briley \$40.00

PERSONAL AIDS

PRODUCT NAME: ArchiveBowl

Bowling score archive. Used to extract archive statistics from LeagueBowl-24 data diskettes.

HARDWARE REOUIREMENTS: 32K (new ROMs), 2040 Disk

AVAILABLE FROM: Harry H. Briley \$40.00

PRODUCT NAME: TournamentBowl

Bowling tournament scorer. Get instant bowling results right in the alley! Handles handicaps, mens, womens, doubles and mixed tournaments. Speedy data entry. Printer option available.

HARDWARE REQUIREMENTS: 8K PET

AVAILABLE FROM: Harry H. Briley \$30.00

PRODUCT NAME: RNAV3 Navigator

Fly direct and use less fuel. Use vortacs to navigate with on your flights on the West coast. While made for planes with RNAV equipment, regular VOR flyers can use it as well. Written by a professional pilot. Only the starting and ending coordinates are needed as input. Course plotted can be straight line mode or VOR-to-VOR mode, as a user option. Air nautical miles are used. Instruction book covers mountain avoidance, trip planning and sample flights with explanation. Some pilot terminology is used.

HARDWARE REOUIREMENTS: 8K (States: WA, OR, ID, UT, NV, AZ, CA)

16K (8K States plus: MT, WY, CO, NM)

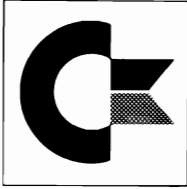
AVAILABLE FROM: Harry H. Briley \$25.00 (8K)
\$30.00 (16K)

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PRODUCT NAME:

Galaxy One

Product Code:700010



This first of a new series of game disks contains all the games on our cassette-based Treasure Troves.

The first six Treasure Troves contain some of the first games to be written for the PET, so Galaxy One provides an opportunity to discover the early history of PET games at an inexpensive price. Disk access to any one of the twenty-four programs means that your favorite game can be up and running in seconds.

Galaxy One comes with a comprehensive manual. No longer will you be stuck half-way across the Galaxy, as the Klingons mass for attack, wondering which button you should press!

Galxy One contains the following:

- | | |
|--------------------|----------------------|
| * Lunar Landing | * Rotate |
| * Wumpus | * 3D Tic Tac Toe |
| * Jumbo Jet Lander | * Target Pong |
| * Draw Poker | * Galaxy Games |
| * Concord Lander | * Off the Wall |
| * Wrap Trap | * Space Trek |
| * Super 9 x 9 | * Formula 1 |
| * Black Jack | * Space Talk & Space |
| * Glider | Flight |
| * Awari | * Othello |
| * Reverse | * Backgammon |
| * Polaris | * Crypto |
| * Life | |

HARDWARE REOUIREMENTS: 8-32K PET/CBM, Disk

AVAILABLE FROM:

Commodore Dealers

\$49.95

PRODUCT NAME:

Tag

Play tag with your opponent and try to beat the clock. The sooner you succeed in tagging him and making him "it," the more points you receive. Variable size playing field and variable speed makes this an exciting game.

HARDWARE REOUIREMENTS: 8-32K PET plus Creative Software dual joystick interface.

AVAILABLE FROM:

Creative Software

\$9.95 plus \$1.50
shipping

PRODUCT NAME:

Gammon Gambler (tm)

Product Code:200206

Gammon Gambler is a highly competitive backgammon program with 10 levels of playing skill. Strategy

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varies with skill level. Gammon Gambler makes full use of Commodore graphics.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Personal Software Inc. \$19.95

PRODUCT NAME: Micro Chess (tm) Product Code:200056

Micro Chess is the industry's first "gold cassette", best seller. The program plays at 8 levels of skill and utilizes 32 book openings - or plays from scratch. The most popular chess program.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Personal Software Inc. \$19.95

PRODUCT NAME: Checker King (tm) Product Code:200156

Checker King plays checkers at 8 skill levels. Playing by tournament rules, checker king forces jumps (double or triple, too!), "Kings" in graphic mode, and will not allow an illegal move.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Personal Software Inc. \$19.95 cassette

PRODUCT NAME: Time Trek (tm) Product Code:200256

Time Trek is a real time (continuous action) space battle game. You are the captain of a starship in active engagement to free the galaxy of klingons. You control course, shields and fire power while simultaneously tracking klingons and avoiding ambush.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Personal Software Inc. \$19.95

PRODUCT NAME: Quest and Draw Product Code:Tape 3

Quest is one of the finest basic adventure games for the PET and it will keep the player busy for a long time (we finally found a way out with the treasure, but we won't tell how to do it!) This program has triggered several imitations and was featured in BYTE. It is a great challenge for a rainy evening. Draw, first featured in PEOPLE'S COMPUTERS magazine, was one of the first general graphics programs for the PET and it is still one of the best.

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HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Peninsula School Computer Project \$9.95

PRODUCT NAME: Seawolf

Use either the keyboard or any Creative Software joystick to move the torpedo gun. You try to hit any of three rows of ships speeding by; immediately in front of your gun are rows of mines, increasing the difficulty of getting off a clear shot. A real-time clock counts down the seconds, and a high score will get you extended play. Written in machine language.

HARDWARE REQUIREMENTS: 8-32K PET

AVAILABLE FROM: Creative Software \$9.95 plus \$1.50 shipping

PRODUCT NAME: Bounceout

This PET machine language version of a popular arcade game uses either the keyboard or any Creative Software joystick as the input device. You control a movable paddle to direct a bouncing ball at rows of bricks; each time the ball hits a brick, the brick disappears and your score increases. Adjustable paddle size makes the game fun for beginners, while the speedup feature makes it challenging for experts.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Creative Software \$9.95 plus \$1.50

PRODUCT NAME: Star Wars

Try to shoot down Darth Vader in this machine language action game. You are Luke Skywalker at the controls of the Millenium Falcon; use the joystick to chase Vader around the corridors of the death star. If you run out of ammunition, you are doomed to defeat. Adjustable range of skills.

HARDWARE REQUIREMENTS: Creative Software Fairchild joystick or Creative Software Dual joystick interface.

AVAILABLE FROM: Creative Software \$9.95 plus \$1.50

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PRODUCT NAME: Sketchpad and Maze

Sketchpad: use the joystick instead of the keyboard to draw your graphic patterns on the screen. Choose any graphic character, move in any of eight directions, erase any unwanted characters. Maze: try to get out of the maze more quickly than anyone else! Don't bump into the walls or you'll be unable to move for a moment.

HARDWARE REQUIREMENTS: 8-32K PET

AVAILABLE FROM: Creative Software \$9.95 plus \$1.50 shipping

PRODUCT NAME: Road Race

This machine language program gives you a choice of three different tracks as you battle with your opponent to win the race. Includes oil slicks, automatic lap counters, variable length races, and an elapsed time clock to tenths of a second.

HARDWARE REQUIREMENTS: 8-32K PET

AVAILABLE FROM: Creative Software \$9.95 plus \$1.50 shipping

PRODUCT NAME: Space War II

In this real time version of Star Trek, you use the joystick to control the Enterprise and try to fend off aliens while you search for colonizable planets. Variable levels of difficulty and four pages of instructions make this one of the most demanding and enjoyable games available anywhere.

HARDWARE REQUIREMENTS: 8-32K PET plus the Creative Software Fairchild joystick.

AVAILABLE FROM: Creative Software \$9.95

PRODUCT NAME: Penny Arcade Product Code: 0044P

Enjoy this fun filled package that's as much fun as a real penny arcade. POETRY - compose free verse poetry on your computer. TRAP - Control two moving lines at once and test your coordination. POKER - Play five card draw poker and let your PET deal and keep score. SOLITAIRE - Don't bother to deal, let your PET handle the cards in this "old favorite" card game. EAT-UM-UPS - Find out how many stars your Gobbler can eat up before the game is over.

HARDWARE REQUIREMENTS: These five games require the PET with 8K.

AVAILABLE FROM: Instant Software \$7.95

GAMES

PRODUCT NAME: Casino I Product Code:0014P

These two programs are so good, you can use them to check out and debug your own gambling system. ROULETTE 4- Pick your number and place your bet with the computer version of this casino game. For one player. BLACKJACK - Try out this version of the popular card game before you go out and risk your money on your own "surefire" system. For one player.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Instant Software \$7.95

PRODUCT NAME: Casino II Product Code:0015P

This craps program is so good, it's the next best thing to being in Las Vegas or Atlantic City. It will not only play the game with you, but will also teach you how to play the odds and make the best bets. It is a one player game.

HARDWARE REQUIREMENTS: 8K PET

AVAILABLE FROM: Instant Software \$7.95

PRODUCT NAME: Trek-X Product Code:0032P

Command the Enterprise as you scour the quadrant for enemy warships. This package not only has superb graphics, but also includes programming for optional sound effects. A one player game.

HARDWARE REQUIREMENTS: 8K PET

AVAILABLE FROM: Instant Software \$7.95

PRODUCT NAME: Arcade I Product Code:0074P

This package combines an exciting outdoor sport with one of America's most popular indoor sports: KITE FIGHT - It's a national sport in India. After you and a friend have spent several hours maneuvering your kites across the screen of your PET, you'll know why! PINBALL - By far the finest use of the PET's exceptional graphics capabilities we've ever seen, and a heck of a lot of fun to boot.

HARDWARE REQUIREMENTS: 8K PET

AVAILABLE FROM: Instant Software \$7.95

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PRODUCT NAME: Arcade II Product Code: 0045P

One challenging memory game and two fast-paced action games make this one package the whole family will enjoy for some time to come. Package includes: UFO - Catch the elusive UFO before it hits the ground. HIT - Better than a skeet shoot. The target remains stationary. but you're moving all over the place. BLOCKADE - A two player game that combines strategy and fast reflexes. HARDWARE REQUIREMENTS: 8K PET

AVAILABLE FROM: Instant Software \$7.95

PRODUCT NAME: Code Name Cipher Product Code:0112P

Enjoy that same feeling of intrigue and discovery with the Code Name Cipher package. Included are: MEMORY GAME - Would you like to match your memory against the computer's? You can with the Memory Game. CODEMASTER - One player types in a word, phrase, or sentence, and the PET translates that message into a cryptogram. The other player must break the code and solve the cryptogram in the shortest time possible. DECEITFUL MINDMASTER - This isn't your ordinary mastermind-type game. You must guess the five letters in the hidden code word. CODE BREAKER - Cracking this code won't be as easy as cracking walnuts. You'll need to flex your mental muscles to win this game. HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Instant Software \$7.95

PRODUCT NAME: Tangle/Supertrap Product Code:0029P

These two programs require fast reflexes and a good eye for angles. TANGLE - make your opponent crash his line into an obstacle. SUPERTRAP - This program is an advanced version of Tangle with many user control options. Enjoy these exciting and graphically beautiful programs. For one or two players. HARDWARE REQUIREMENTS: 8K PET

AVAILABLE FROM: Instant Software \$7.95

PRODUCT NAME: Baseball Manager Product Code:0062P

This pair of programs will let you keep statistics on each of your players. Obtain batting, on base, and fielding averages at the touch of a finger. Data can be

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easily stored on cassette tape for later comparison.
HARDWARE REQUIREMENTS: 8K PET

AVAILABLE FROM: Instant Software \$14.95

PRODUCT NAME: Chimera Product Code:0110P

If you think the legendary Chimera was hard to handle, wait until you try the Chimera package. Included are: RELFLEX - Round and round the little white ball rolls. Only fast reflexes can guide it into the center of the maze. DRAGON - You'll have to shoot down those pesky, fire-breathing dragons with your cannon. If you succeed, your castle will be safe. If not, it will mean a call to your fire insurance company. For one player. DUNGEON - A very punctual guard comes down to the dungeon every day to torture you. This means that you have only thirty seconds to dig your way under the castle to freedom. For one player. DRAGON HUNT - You must go forth and slay a fire-breathing dragon. The only thing that will protect you from the flames is your shield, if you know when to use it. For one player. DROPOFF - You must make your opponent's men "dropoff" the board by moving and firing your own men. For one or two players.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Instant Software \$9.95

PRODUCT NAME: Santa Paravia and Fiumaccio Product Code:0175P

It is the dawn of the 15th century; you rule a tiny Italian city-state. Your goal: The Crown! Up to six players can compete as rulers and neighboring cities. You control the grain harvest, feed your serfs, set tax rates, dispense justice, and invest in public works. The future of your realm will depend on your decisions. If they are wise, your city-state will grow and you will acquire loftier titles. If your rule is incompetent, your people will starve and you may be invaded by your neighbors. How will you rule your kingdom? Will you be an enlightened leader - or an unscrupulous despot? Only you can answer that question - with Santa Paravia and Fiumaccio.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Instant Software \$9.95

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PRODUCT NAME: Turf and Target Product Code:0097P

Whether on the field or in the air, you'll have fun with the Turf and Target package. Included are: QUARTERBACK - You're the quarterback as you try to get the pigskin over the goal line. You can pass, punt, hand off, and see the result of your play with the PET's superb graphics. SOCCER II - Play the fast-action game of soccer with four playing options. The computer can play itself or a single player; two can play with computer assistance; or two can play without help. SHOOT - You're the hunter as you try to shoot the bird out of the air. The PET will keep score. TARGET - Use the numeric keypad to shoot your puck into the home position as fast as you can.

HARDWARE REQUIREMENTS: 8K PET

AVAILABLE FROM: Instant Software \$7.95

PRODUCT NAME: Mimic Product Code:0039P

Test your memory and reflexes with the five different versions of this game. You must match the sequence and location of signals displayed by your PET. This one-player program includes optional sound effects.

HARDWARE REQUIREMENTS: 8K PET

AVAILABLE FROM: Instant Software \$7.95

PRODUCT NAME: Pet Demo 1 Product Code:0035P

You can give yourself, your family, and your friends hours of fun and excitement with this gem of a package. SLOT MACHINE - You won't be able to resist the enticing messages from this computerized one-armed bandit. CHASE - You must find the black piece as you search through the ever changing maze. FLYING PHEASANT - Try to shoot the flying pheasant on the wing. SITTING DUCKS - Try to get your archer to shoot as many ducks as possible for a high score. CRAPS - It's Snake Eyes, Little Joe, or Boxcars as you roll the dice and try to make your point. GRAN PRIX 2001 - Drivers with experience ranging from novice to profesional will enjoy this multi-leveled race game. FOX AND HOUNDS - It's you against the computer as your four hounds try to capture the computer's fox.

HARDWARE REQUIREMENTS: 8K PET

AVAILABLE FROM: Instant Software \$7.95

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PRODUCT NAME: Invasion Orion Product Code:AS-121C

Using the same basic game rules as Starfleet Orion, test your skill against your PET with Invasion Orions. You have a challenging opponent, willing to take either side of a scenerio at any time. Choose from three levels of play for the computer. Use supplied scenerios or build your own! Your only limitation is your imagination!

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Automated Simulations \$19.95

PRODUCT NAME: Temple of Apshai Product Code:AS-211C

Temple of Apshai will take you into magical, mythical labyrinths, populated by fearsome monsters who guard many and varied treasures. Monsters that move in real time will keep you jumping, as you try to fight your way back to the surface with your treasures. With over 16 million kinds of characters - not to mention the possible ways to equip them, Temple of Apshai is good for thousands of hours of learning and playing pleasure.

HARDWARE REOUIREMENTS: Contact dealer.

AVAILABLE FROM: Automated Simulations \$24.95

PRODUCT NAME: Hellfire Warrior Product Code:AS-221C

So you've mastered the Temple of Apshai, and you want some more challenge. Hellfire Warrior provides the next 4 dungeon levels including an apothecary and a magic shoppe. Don't enter this game without courage and an adventursome spirit. Enter your veterans character from your Temple adventures and use all your wits, strength and intuition to survive, and bring back to the surface, the greatest glory and treasure ever!

AVAILABLE FROM: Automated Simulations \$24.95

PRODUCT NAME: Datestones of Ryn Product Code:AS-311C

An introduction to adventure software, you have 20 minutes to track down the dasterdly robbers who have stolen the datestones. Your mission is to recover the booty before the cutthroats can slip away. Not only do the real time monsters keep you at a dead run, but your

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time is running out. Scoring is built in to Datestones, allowing you to measure how you do in successive playings. And how your prowess measures up against your friends.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Automated Simulations \$38.00

PRODUCT NAME: Morloc's Tower Product Code:AS-321C

In Morloc's Tower, you will find 3 kinds of rings, a magic sword, two amulets, 30 rooms and 18 real time actions. There are half a dozen other treasures and a dozen types of monsters, including old Morloc himself. Morloc is an intelligent opponent for you to vanquish. Morloc's Tower is for the beginning fantasy gamer. Easy to learn, but a challenge to master, you'll think you've got it all figured out but play over and over again to improve your score!

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Automated Simulations \$14.95

PRODUCT NAME: Rescue at Rigel Product Code:AS-411C

The High Tollah is holding a clawful of hostages, and it's your mission to rescue them. Pick your way through the convoluted levels of the base and find the rooms in which the captives are held. There's a gunboat waiting in orbit, but it takes energy to contact them and to beam your friends aboard. Once you've beamed them aboard, you will need all your energy to get you back to your rendezvous point and escape the Tollah yourself.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Automated Simulations \$19.95

GAMES

PRODUCT NAME: Starfleet Orion Product Code: AS-111C

Starfleet Orion brings the opportunity to fight space battles in your living room. Scenerios vary in complexity with 2-15 space craft. One program is the game, the other scenerios are data files. You get 12 scenerios with the game and you may invent as many more as you see fit. Played with a partner, Starfleet Orion is your key to limitless adventure!

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Automated Simulations \$19.95

PRODUCT NAME: Jukebox Series

Extremely well coded songs. All use varied wave forms for good rythm and movement. Each group of songs is in memory at one time, so you can make "jukebox" selections for instant replay.

- | | |
|---|--------|
| 1. Six Blues for Pet | \$7.90 |
| 2. Some Disco for Pet | \$6.90 |
| 3. More Jazz for Pet | \$5.90 |
| 4. Some Ballads for Pet | \$5.90 |
| 5. More Blues for Pet | \$5.90 |
| 6. More Disco for Pet | \$6.90 |
| 7. Three More Blues for Pet | \$4.90 |
| 8. Disco Light Show for Pet | \$6.90 |
| 9. Three Sousa Marches for Pet | \$4.90 |
| 10. Three More Sousa Marches for
Pet | \$4.90 |
| 11. Some Ragtime for Pet | \$5.90 |
| 12. More Ragtime for Pet | \$5.90 |
| 13. Some Bach for Pet | \$6.90 |
| 14. More Bach for Pet | \$6.90 |
| 15. Duke Ellington for Pet | \$9.90 |

HARDWARE REQUIREMENTS: 4 part Music Boards

AVAILABLE FROM: AB Computers \$4.90 thru \$9.90

PRODUCT NAME: Cursor Magazine

CURSOR is a cassette of high quality programs. You get a C-30 magnetic cassette every-other-month with five excellent computer programs via First Class Mail. With each cassette you also get CURSOR NOTES, which provides written instructions for using the programs, as

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well as new product announcements.

HARDWARE REQUIREMENTS: 8K CPU, Cassette and Sound.

Available from: Cursor Magazine \$27.00 for 6 issues
\$ 4.95 for each back
issue

PRODUCT NAME: Visible Music Monitor

Visible Music Monitor is written entirely in 6502 machine language. VMM provides an easy way to enter 4 part music. The user can see the notes on the screen as they are entered, and can make changes both with the insert and delete keys, and by using cursor up and down to "move" notes on the screen. Other features include "record changer" mode to load successive songs without intervention, user definable keyboard, and entry of whole notes through 64ths including dotted and triplet notes. Additionally, you can specify change tempo, set key signature, and transpose at any time. Wave form modification makes it possible to create new instrument sounds. Voices can switch from one instrument to another or gang up on one instrument during the course of the song. Music can be played either with note display (useful for debugging songs), or with no display.

HARDWARE REQUIREMENTS: The Visible Music Monitor is intended to support 4-part harmony systems such as the KL-4M.

AVAILABLE FROM: AB Computers \$30.00

PRODUCT NAME: Football

A truly interactive game for 1 or 2 people where you control the offensive runner, trying to gain yardage while avoiding the "tacklers." Full down keeping, score, and clock functions are provided. Select from 20 levels of difficulty to provide continuing challenge.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Tycom Associates \$7.95

PRODUCT NAME: Petzee

This is an excellent computerized version of the Yahtzee game, with the drudgery of score-keeping done for you. Large dice are graphically displayed for ease on the

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eyes. Check your score pad anytime during game. Multiple players allowed with separate score-keeping for each, and a final tally of the game results.
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Tycom Associates \$7.95

PRODUCT NAME: Max

It's you against the computer. This is a popular dice game which requires a bit of wit and an occasional lie to succeed. A unique game with great graphics.
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Tycom Associates \$7.95

PRODUCT NAME: Horserace

Play the odds. Pick a horse to win, place, or show, and bet from your "cash" holdings (\$100 to start). Horses hug the rail as they vie for position. Even includes an occasional "photo-finish." Win \$100,000 and bankrupt the track! For 1 to 5 players, a great party game.
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Tycom Associates \$7.95

PRODUCT NAME: Kopykat

Repeat an ever increasing sequence of numbers within the allotted time. Choose speed and length of the sequence. Repeat a sequence for competitive play. Graphic display, and optional sound effects via user port.
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Tycom Associates \$7.95

PRODUCT NAME: Battleship

The classic battleship game. You really have to be on your toes to destroy the computer's fleet before you are "sunk." Full instructions on tape.
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Tycom Associates \$7.95

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PRODUCT NAME: Chessboard

Chessboard allows two players to play chess on your own PET graphic chessboard. This program displays each player's time and records each move to allow you to playback the game at another time. All moves are entered in typical chess notation.

HARDWARE REQUIREMENTS: 8K PET or CBM's

AVAILABLE FROM: Sawyer Software \$15.00

PRODUCT NAME: Mad Libs Product Code:065

A party favorite! Use your own adjectives-adverbs, etc. and the computer will write funny stories around them. Also good for teaching nouns, verbs, etc.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: P. S. Software House \$5.95

PRODUCT NAME: Computer Derby Product Code:066

Excitement mounts as the horses race toward the finish. Computer keeps track of all bets. Up to four people can play. New winners every time!

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: P.S. Software House \$5.95

PRODUCT NAME: Bounce Product Code: 067

Split second timing required for this game of skill! Challenge family and friends to knock out all the targets with the speedily bouncing ball.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: P. S. Software House \$5.95

PRODUCT NAME: Startrek Product Code:070

All time favorite with special graphics.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: P. S. Software House \$5.95

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PRODUCT NAME: Mortar Product Code:071

For the mathematically inclined; an advanced technical game involving X-Y coordinates and angles to direct the Mortar shell to the target as seen on the Radar screen.
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: P. S. Software House \$5.95

PRODUCT NAME: Race Car Product Code:068

Race your car through the winding maze without crashing. Increase your speed and become a pro - if you can.
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: P. S. Software House \$5.95

PRODUCT NAME: Numberama Product Code:072

Numberama is a number guessing game based on the game of "Master Mind." The computer will generate a random number with the number of digits you select (1 to 9). As you try to guess the number, the computer will give you clues. This game takes a great deal of strategy for a quick solution.
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: P. S. Software House \$5.95

PRODUCT NAME: American History: The Decades Game - Series One

The first titles in this Series are time lines of American History presented in game form. Events in these games span time from the opening shot of the Revolution to the opening shot of the Space Age. The games involve placing events in our nation's politics, economics, technology, science, folklore and art in their proper time. Each game is different and equal in difficulty. For one to four players. The games are for age 13 thru adult.
HARDWARE REQUIREMENTS: PET 16K

AVAILABLE FROM: Brain Box \$39.95

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PRODUCT NAME: The States Game

The first title in this Series is a game about our fifty states. Each game contains clues about 10 states in the U.S.A. Five games - 50 states! One to four people may play and try to guess the state from the clues about each that are displayed. This game is for age 9 and up.

The States Game: Series One / Game One thru Game Five
HARDWARE REOUIREMENTS: 16K PET

AVAILABLE FROM: Brain Box \$39.95

PRODUCT NAME: Jury/Hostage

JURY: How good are you at life and death decisions? You screen and select the members of a jury and then participate in the trial. Based on real life court cases, written by an attorney.

HOSTAGE: A hostage has been taken prisoner and you must negotiate with the captors for his releases. The fate depends upon your decisions and success.
HARDWARE REOUIREMENTS: 8-32K PET

AVAILABLE FROM: United Software of America \$9.95

PRODUCT NAME: Space Intruders

The planet Earth is invaded by creatures from the other planets of the solar system. You must fight off this alien fleet with a movable ray gun. Aliens blast your defensive positions as they move closer and closer to Earth.

HARDWARE REOUIREMENTS: 8-32K PET (Optional - Soundware Music Box)

AVAILABLE FROM: United Software Of America \$19.95

PRODUCT NAME: Kentucky Derby/Roulette

They're at the starting gate and...they're off! Follow the excitement of the world's greatest race for the finish line. Will your horse make it to the winner's circle?

Roulette: 32 black or 23 red? All the thrills of a Las

GAMES

Vegas casino, in your own home, and you're there to cash in your chips. How much will you risk to beat the house?

HARDWARE REQUIREMENTS: 8-32K PET

AVAILABLE FROM: United Software Of America \$9.95

PRODUCT NAME: Alien I.Q./Tank

TANK: Move, turn, fire! Destroy a powerful aggressor who is attacking your pillbox. Plenty of action as you maneuver against the computer's tank.

ALIEN IQ: Match wits with the alien being. Can you out-think this creature from another world, in this one-on-one competition?

HARDWARE REQUIREMENTS: Old 8K PET Only

AVAILABLE FROM: United Software Of America \$9.95

PRODUCT NAME: Submarine Attack

You spot the enemy sub in your periscope and prepare to fire your torpedoes. But first, you must dodge the enemy torpedoes! Great excitement as you develop your tactics for victory beneath the sea!

HARDWARE REQUIREMENTS: 8-32K PET

AVAILABLE FROM: United Software Of America \$9.95

PRODUCT NAME: Midway

The enemy is attacking. The fleet must be saved. You are at the controls as you direct the courses of your ships and planes. Can you meet the challenge of Midway?

HARDWARE REQUIREMENTS: 8-32K PET

AVAILABLE FROM: United Software Of America \$7.95

PRODUCT NAME: Super Startrek

Add some excitement to your Klingon warfare! This version of Startrek includes action, in addition to the "standard" Startrek features. Follow the action as you maneuver about the quadrant! See your photon torpedo seek out and destroy the enemy! Watch your starship dock at a starbase to resupply and effect repairs! With

GAMES

Startrek, your missions are never dull! Long live the Federation!

HARDWARE REQUIREMENTS: 8-32K PET

AVAILABLE FROM: United Software Of America \$14.95

PRODUCT NAME: Baseball

Bases loaded, bottom of the ninth. Can you get the winning run home? Will there be a new pitcher from the bullpen? Match strategies as you manage against a tireless opponent in the game that is America's national pastime. Real time action.

HARDWARE REQUIREMENTS: Old 8K PET only.

AVAILABLE FROM: United Software Of America \$7.95

PRODUCT NAME: Swarm

Huge swarms of killer bees have been sighted in various sections of the U.S. They are spreading at an alarming rate, causing thousands of casualties. You must decide the tactics to be used to combat this deadly menace. You must oversee all 21 sectors of the U.S. and prevent the major city in each section from being overrun by the swarm. Using various combat and urban defense tactics, combined with evacuation and nuclear destruction, you attempt to save the U.S. from the SWARM!

HARDWARE REQUIREMENTS: 8-32K PET

AVAILABLE FROM: United Software Of America \$14.95

PRODUCT NAME: Super Gomoku

The most advanced of Gomoku games. The computer challenges you on 6 levels of play; 8x8 matrix for short games, and up to 15x15 for longer games. Also includes self play mode.

HARDWARE REQUIREMENTS: 8-32K PET

AVAILABLE FROM: United Software Of America \$9.95

PRODUCT NAME: Laser Tank Battle

An action game for 1 or 2 players. Both tanks maneuver, aim and fire! Head to head competition on battlefields

GAMES

that change with every play.
HARDWARE REQUIREMENTS: Old 8K PET only

AVAILABLE FROM: United Software Of America \$9.95

PRODUCT NAME: Soundware Music Box

Plug the Soundware Music Box into your computer, and your games and programs come alive! Imagine hearing laser sounds, bounces, clicks, music notes, tunes, or whatever you dream up, from your computer. Soundware Music Box can also be programmed independently for a wide variety of audio experiences. A "must" for all serious game players.

HARDWARE REQUIREMENTS: 8-32K PET

AVAILABLE FROM: United Software of America \$29.95

PRODUCT NAME: Word Game Product Code:PC375-9

Players try to fill in missing letters in a randomly chosen title or phrase and earn points according to the graphic display on a "Wheel of Fortune." The scores of each player are recorded, 1000 points required to win game. There are 6 titles in series, each a separate cassette: Song Titles, Famous Places, Entertainers, Statesmen, Scientists and Sports Figures.

HARDWARE REQUIREMENTS: 8K PET

AVAILABLE FROM: Microphys \$15.00 each

PRODUCT NAME: Poker Product Code:PC385

Graphic displays depicts each hand; players bet, draw cards, and bet again. The House is programmed to make moves in accordance with the hand it has been dealt and the nature of the betting that has taken place. The computer evaluates each hand, both before and after cards have been drawn, rearranges the cards in each hand appropriately and clearly displays a summary of all games.

HARDWARE REQUIREMENTS: 8K PET

AVAILABLE FROM: Microphys \$15.00

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PRODUCT NAME: Bingo Product Code:PC390

1 to 20 players can enjoy the excitement of this computer controlled game. The computer displays the randomly selected numbers and evaluates the cards in the game after each call is made. The computer can also display the status of any given card during the course of a game. A set of 20 Bingo cards is included with the program. The program permits any of the following games: Any Bingo, frame, full card, letter L, letter T, letter X, letter H.

HARDWARE REQUIREMENTS: 16K PET

AVAILABLE FROM: Microphys \$15.00

PRODUCT NAME: Crypto Product Code:PC350

Crypto creates cryptograms from various lines of text, which are entered by the user. The encoded cryptogram is then displayed along with its unique code number. The program will permit user #1 to create an encoded message which may then be transmitted to user #2. The code number will permit the second user to decode the message, should he encounter difficulty.

HARDWARE REQUIREMENTS: 8K PET

AVAILABLE FROM: Microphys \$15.00

PRODUCT NAME: Mansion!

At an elaborate dinner party, the butler discovers that something is missing from the mansion. Find the light-fingered guest quick! (Maybe the butler did it.)

HARDWARE REQUIREMENTS: 8K PET

AVAILABLE FROM: Harry H. Briley \$15.00

PRODUCT NAME: MUSEUM!

A famous museum calls and the exasperated voice reports that a valuable treasure has been stolen. Use your expert deductive skills to catch the thief.

HARDWARE REQUIREMENTS: 8K PET

AVAILABLE FROM: Harry H. Briley \$15.00

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PRODUCT NAME: Pentagon!

Lurking in a corridor is a spy disguised as a ranking officer. Some secret papers have been reported as missing. Locate the spy before he gets away.

HARDWARE REQUIREMENTS: 8K PET

AVAILABLE FROM: Harry H. Briley \$15.00

PRODUCT NAME: High Seas

Aye Mate. here is the salty sea game of pirate ships laden with gold. Carry off loot if ye can, but watch out for icebergs, reefs and floating debris. Even the Bermuda Triangle is out there.

The Merchant Fleet has fallen prey to those privateers and it's up to you to clear the sea lanes for safe passage. There is danger, plus gold, adventure. islands, ports of call, ships of all descriptions and three of the most wanted pirates at large.

HARDWARE REQUIREMENTS: 8K PET

AVAILABLE FROM: Harry H. Briley \$15.00

PROGRAM NAME: Fur Trapper

In the days of mountain men, thar war wild critters in dem mountains. Fierce bobcats, wily coyotes, dangerous bars, and many other friendly things. Pelts brought big prices back then and those who survived the wild did very well. Try your hand at those woolly days. Get the pelts afor' they get you.

HARDWARE REQUIREMENTS: 8K PET

AVAILABLE FROM: Harry H. Briley \$15.00

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PRODUCT NAME: Bagels

Product Code:CC1

A three digit number guessing game that provides practice in reasoning and deduction. The program has a 'lock-in' feature - in order to stop, you must complete the game or turn off the computer (stop disabled). Intermediate.

HARDWARE REQUIREMENTS: 8K PET (both old and new ROM's).

AVAILABLE FROM: Microcomputers in Education

\$6.00 cassette tape
\$4.00 disk (minimum
of 10 programs)

PRODUCT NAME: ZAP

Product Code:CC2

A multiplication game for two people that provides practice of facts for numbers 2 through 6. Graphics are used. During the game, players cannot get out of the program unless they turn computer off or continue the program until one of them makes 100 points to win. Intermediate.

HARDWARE REQUIREMENTS: 8K PET (both old and new ROM's).

AVAILABLE FROM: Microcomputers in Education

\$6.00 cassette tape
\$4.00 disk (minimum
of 10 programs)

PRODUCT NAME: States & Capitals

Product Code:CC4

Practice is provided in associating a state with it's capital- as well as a capital with it's state. You're given the choice of filling in the blanks, or multiple choice. Incorrectly answered questions are automatically repeated until correctly answered. It is not necessary to answer for all 50 states or capitals - typing a '5' takes you out of the multiple choice program. and typing any letter takes you out of the fill-in-the-blanks program. Intermediate, Adult.

HARDWARE REQUIREMENTS: 8K PET (both old and new ROM's).

AVAILABLE FROM: Microcomputers in Education

\$6.00 cassette tape
\$4.00 disk (minimum
of 10 programs)

EDUCATION

PRODUCT NAME: Stars Product Code:CC6

Guess a number between 0 and 100, which has been randomly selected by the computer. As you get closer, more and more stars appear. Some graphics are used. The stop is disabled. Primary, Intermediate.

HARDWARE REQUIREMENTS: 8K PET (both old and new ROM's).

AVAILABLE FROM: Microcomputers in Education \$6.00 cassette tape
\$4.00 disk (minimum of 10 programs)

PRODUCT NAME: Plurals Product Code:CC7

Determine if the word displayed by the computer is singular or plural. The stop is disabled. Primary, Intermediate.

HARDWARE REQUIREMENTS: 8K PET (both old and new ROM's)

AVAILABLE FROM: Microcomputers in Education \$6.00 cassette tape
\$4.00 disk (minimum of 10 programs)

PRODUCT NAME: Math Drill Product Code:CC10

Choose 10 addition, subtraction, multiplication, division, or mixed operation problems, with range of 0-5, 0-10, or -10 to +10. Keeps track of time used for the 10 problems, and gives summary of correct and incorrect answers, at end of run.

HARDWARE REQUIREMENTS: 8K PET (both old and new ROM's)

AVAILABLE FROM: Microcomputers in Education \$6.00 cassette tape
\$4.00 disk (minimum of 10 programs)

PRODUCT NAME: Spelling 100 Product Code:CC11

Practice in spelling words from the list of 100 words most often misspelled by children in the elementary grades (Journal of Education, October 1950). Graphics are used. Stop is disabled. You are allowed to look at a word briefly and then are required to type in a

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correct spelling. Primary, Intermediate.

HARDWARE REQUIREMENTS: 8K PET (both old and new ROM's).

AVAILABLE FROM: Microcomputers in Education \$6.00 cassette tape
\$4.00 disk (minimum
of 10 programs)

PRODUCT NAME: Hangman 100 Product Code:CC13

A version of the standard hangman game. This program uses words from the list of 100 words most often misspelled by children at elementary level (Journal of Education, October 1950). Graphics are used. Stop is disabled. Primary, Intermediate.

HARDWARE REQUIREMENTS: 8K PET (both old and new ROM's).

AVAILABLE FROM: Microcomputers in Education \$6.00 cassette tape
\$4.00 disk (minimum
of 10 programs)

PRODUCT NAME: Baseball Product Code:CC16

A multiplication fact drill and practice for two people or teams. Graphics are used to show a baseball diamond and the positions of the runners. This is a three-inning game. Directions are given at the end of the game for playing additional innings. Intermediate, Junior.

HARDWARE REQUIREMENTS: 8K PET (both old and new ROM's)

AVAILABLE FROM: Microcomputers in Education \$6.00 cassette tape
\$4.00 disk (minimum
of 10 programs)

PRODUCT NAME: Nouns Product Code:CC17

Practice in selecting the noun in a given sentence. You decide how many sentences you'd like to do - up to 25. Intermediate, Junior.

HARDWARE REQUIREMENTS: 8K PET (both old and new ROM's).

AVAILABLE FROM: Microcomputers in Education \$6.00 cassette tape
\$4.00 disk (minimum
of 10 programs)

PRODUCT NAME: Golf Product Code:CC19

A number game involving addition and subtraction of selected numbers to arrive at par. Input is checked for

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validity. This is a nine-hole game. Primary, Intermediate.

HARDWARE REQUIREMENTS: 8K PET (both old and new ROM's)

AVAILABLE FROM: Microcomputers in Education \$6.00 cassette tape
\$4.00 disk (minimum
of 10 programs)

PRODUCT NAME: Verbs 1 Product Code:CC20

Practice selection of is/are, and was/were, within a sentence. You determine the number of sentences to be tried. Stop is disabled. A summary is given at the end of the run. Intermediate.

HARDWARE REQUIREMENTS: 8K PET (both old and new ROM's).

AVAILABLE FROM: Microcomputers in Education \$6.00 cassette tape
\$4.00 disk (minimum
of 10 programs)

PRODUCT NAME: Adjectives Product Code:CC21

Practice in selecting an adjective in a given sentence. You determine how many sentences, up to 35, will be tried. Summary given at end of run. Intermediate, Junior.

HARDWARE REQUIREMENTS: 8K PET (both old and new ROM's).

AVAILABLE FROM: Microcomputers in Education \$6.00 cassette tape
\$4.00 disk (minimum
of 10 programs)

PRODUCT NAME: Ist-Sind Product Code:CC22

You are given a German sentence and must use either 'Ist or Sind' to correctly complete the sentence. Up to 25 sentences may be selected. Summary given at end of run. Intermediate.

HARDWARE REQUIREMENTS: 8K PET (both old and new ROM's).

AVAILABLE FROM: Microcomputers in Education \$6.00 cassette tape
\$4.00 disk (minimum
of 10 programs)

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PRODUCT NAME: Usage Product Code:CC23

Complete the given sentence using one of the two given verbs. You determine how many sentences will be tried. Summary given at end of run. Intermediate.
HARDWARE REQUIREMENTS: 8K PET (both old and new ROM's).

AVAILABLE FROM: Microcomputers In Education \$6.00 cassette tape
\$4.00 disk (minimum of 10 programs)

PRODUCT NAME: Lemonade Product Code:CC24

A computer simulation where you will make decisions that are similar to those you might make in running a real lemonade stand. Program ends after 10 working cycles. Program may be used by one or more people, at a time. Intermediate.
HARDWARE REQUIREMENTS: 8K PET (both old and new ROM's).

AVAILABLE FROM: Microcomputers In Education \$6.00 cassette tape
\$4.00 disk (minimum of 10 programs)

PRODUCT NAME: Place Value 1 Product Code:CC25

Determine how many ones, tens, hundreds, etc., are in the given number. You are given 10 place value problems. The results are summarized. Helpful hints are given to help determine the correct answer after an incorrect answer has been given. Intermediate.
HARDWARE REQUIREMENTS: 8K PET (both old and new ROM's).

AVAILABLE FROM: Microcomputers In Education \$6.00 cassette tape
\$4.00 disk (minimum of 10 programs)

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PRODUCT NAME: Light Bulbs 1 Product Code:CC26

Computer shows a configuration of a bulb, battery, and wire. You must decide whether or not the bulb will light, and if not - why not? You determine the number of circuit problems to be tried. Summary of the results are given at the end. Intermediate.

HARDWARE REQUIREMENTS: 8K PET (both old and new ROM's).

AVAILABLE FROM: Microcomputers in Education \$6.00 cassette tape
\$4.00 disk (minimum
of 10 programs)

PRODUCT NAME: Alphabet Product Code:CC27

Computer displays 7 consecutive letters of the alphabet. You determine which letter is missing. Three levels of prompts are used to help the user discover which letter is missing. Stop is disabled. Primary.

HARDWARE REQUIREMENTS: 8K PET (both old and new ROM's).

AVAILABLE FROM: Microcomputers in Education \$6.00 cassette tape
\$4.00 disk (minimum
of 10 programs)

PRODUCT NAME: Antonyms Product Code:CC28

A version of the game 'concentration' matching antonyms. A game for one or two people. Score is kept for each player. The stop is disabled. Intermediate.

HARDWARE REQUIREMENTS: 8K PET (both old and new ROM's).

AVAILABLE FROM: Microcomputers in Education \$6.00 Cassette Tape
\$4.00 Disk (minimum
of 10 programs)

PRODUCT NAME: Dragstrip Math Product Code:CC29

Six different levels of math in drill form. Two to four players compete to have their race car reach the finish line first, and win the race. Graphics are used. The forward movement of the cars is random. A car will not move on an incorrect answer. Choice of addition, subtraction, multiplication, division, or mixed operation problems are given. Primary, Intermediate.

HARDWARE REQUIREMENTS: 8K PET (both old and new ROM's).

AVAILABLE FROM: Microcomputers In Education \$6.00 cassette tape
\$4.00 disk

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PRODUCT NAME: Map Directions 1 Product Code:CC30

Determine which of four or eight directions the designated arrow is pointing. Choice of level. Level 1 - four directions, eight problems; or level 2 - eight directions, sixteen problems. Summarized results at end of run.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Microcomputers in Education \$6.00 cassette tape
\$4.00 disk (minimum
of 10 programs)

PRODUCT NAME: Map Directions 2 Product Code:CC31

Determine which of four or eight directions correctly answers the given question. Level one is four directions, eight problems. Level two is eight directions, sixteen problems. Summarized results are given at end of run. Intermediate.

HARDWARE REQUIREMENTS: 8K PET (both old and new ROM's).

AVAILABLE FROM: Microcomputers in Education \$6.00 cassette tape
\$4.00 disk (minimum
of 10 programs)

PRODUCT NAME: Number Words Product Code:CC32

A version of the game "Concentration" matching numbers with their number-word. A game for one or two people. Score is kept for each player. Stop is disabled. Primary, Intermediate.

HARDWARE REQUIREMENTS: 8K Pet (both old and new ROM's).

AVAILABLE FROM: Microcomputers In Education \$6.00 cassette tape
\$4.00 disk (minimum
of 10 programs)

EDUCATION

PRODUCT NAME: Zap Add Product Code:CC33

Addition game for two people which provides practice of sums for range 0-5. Some graphics used. Stop is disabled. A game is 35 points. Primary, Intermediate.
HARDWARE REQUIREMENTS: 8K PET (both old and new ROM's).

AVAILABLE FROM: Microcomputers in Education \$6.00 cassette tape
\$4.00 disk (minimum of 10 programs)

PRODUCT NAME: Synonyms Product Code:CC34

A version of the game "Concentration" matching synonyms. A game for one or two players. Score is kept for each player. Stop is disabled. Intermediate.
HARDWARE REQUIREMENTS: 8K PET (both old and new ROM's).

AVAILABLE FROM: Microcomputers In Education \$6.00 cassette tape
\$4.00 disk (minimum of 10 programs)

PRODUCT NAME: Alphabetizing Product Code:CC36

Arrange 3,5,7, or 9 words in alphabetical order. The program has two levels - primary and intermediate. Stop is disabled. Summary at end of run.
HARDWARE REQUIREMENTS: 8K PET (both old and new ROM's).

AVAILABLE FROM: Microcomputers in Education \$6.00 cassette tape
\$4.00 disk (minimum of 10 programs)

PRODUCT NAME: Number SEQ 1 Product Code:CC39

Determine which number is missing out of a sequence of four numbers from 0 to 9. No written directions are given, so that children unable to read can use the program. Hints are given to help discover correct answer after each incorrect input. Stop is disabled. Primary.
HARDWARE REQUIREMENTS: 8K PET (both old and new ROM's).

AVAILABLE FROM: Microcomputers in Education \$6.00 cassette tape
\$4.00 disk (minimum of 10 programs)

EDUCATION

PRODUCT NAME: Careers Product Code:CC40

Decide which of three given careers or skills would most likely use the tool shown. You decide how many problems are to be tried. A summary of results are given at end of run. Helpful hints are given each time a wrong answer is given until the correct choice is made.
HARDWARE REQUIREMENTS: 8K PET (both old and new rom's).

AVAILABLE FROM: Microcomputers in Education \$6.00 cassette tape
\$4.00 disk (minimum of 10 programs)

PRODUCT NAME: Number SEQ 2 Product Code:CC41

Determine which number is missing within a given sequence of five numbers ranging from 10 to 99. No written directions given, so children without reading ability may use the program. Stop is disabled. Helpful hints are given to discover correct answer after each incorrect input. Primary.
HARDWARE REQUIREMENTS: 8K PET (both old and new ROM's).

AVAILABLE FROM: Microcomputers in Education \$6.00 cassette tape
\$4.00 disk (minimum of 10 programs)

PRODUCT NAME: Place Value 2 Product Code:CC42

Timed practice in place value. Two minute time limit per run. One or two players can use the program. Three levels of difficulty, and choice of three different types of problems. Some graphics used.
HARDWARE REQUIREMENTS: 8K PET (both old and new ROM's)

AVAILABLE FROM: Microcomputers in Education \$6.00 cassette tape
\$4.00 disk

EDUCATION

PRODUCT NAME: Rounding Product Code:CC43

Practice in rounding numbers to the nearest 10's, 100's, 1,000's, or 10,000's place. Ten problems are given with the results summarized at end of run. Two level option: 1) numbers between 100 and 9999, 2) numbers between 100 and 99999. Intermediate.

HARDWARE REQUIREMENTS: 8K PET (both old and new ROM's)

AVAILABLE FROM: Microcomputers in Education \$6.00 cassette tape
\$4.00 disk (minimum
of 10 programs)

PRODUCT NAME: Ruler cm Product Code:CC44

Determine the length of the given strip, in centimeters, using the 9 cm ruler simulation. Helpful hints are given to help discover the correct answer after each incorrect input. Stop is disabled. Primary, Intermediate.

HARDWARE REQUIREMENTS: 8K PET (both old and new ROM's)

AVAILABLE FROM: Microcomputers in Education \$6.00 cassette tape
\$4.00 disk (minimum
of 10 programs)

PRODUCT NAME: Ruler Inches Product Code:CC45

Determine the length of the given strip, in inches, using the 6" ruler simulation. Helpful hints are given to discover correct answer after each incorrect input. Stop is disabled. Primary.

HARDWARE REQUIREMENTS: 8K PET (both old and new ROM's)

AVAILABLE FROM: Microcomputers In Education \$6.00 cassette tape
\$4.00 disk (minimum
of 10 programs)

PRODUCT NAME: Counting 1 Product Code:CC46

Determine how many shapes are given on the screen. Stop is disabled. Primary.

HARDWARE REQUIREMENTS: 8K PET (both old and new ROM's)

AVAILABLE FROM: Microcomputers In Education \$6.00 cassette tape
\$4.00 disk (minimum
of 10 programs)

EDUCATION

PRODUCT NAME: Math Swim Product Code:CC47

Two players, by answering math problems, compete to climb a diving tower and dive into the water first. Choice of addition, subtraction, multiplication, and division problems. Graphics used. Primary, Intermediate.

HARDWARE REQUIREMENTS: 8K PET (both old and new ROM's)

AVAILABLE FROM: Microcomputers In Education \$6.00 cassette tape
\$4.00 disk (minimum of 10 programs)

PRODUCT NAME: Counting Tens Product Code:CC48

Determine the number of shapes by counting the groups of tens and then the ones. Two level choice. Helpful hints are given to help determine correct answer after an incorrect input. Stop is disabled. Primary,

HARDWARE REQUIREMENTS: 8K PET (both old and new ROM's)

AVAILABLE FROM: Microcomputers in Education \$6.00 cassette tape
\$4.00 disk (minimum of 10 programs)

PRODUCT NAME: Book Shelf Product Code:CC49

Shelve the given book correctly on the library book shelf. Progress report given after each set of 10 problems. Two level choice. Graphics used. Primary, Intermediate.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Microcomputers In Education \$6.00 cassette tape
\$4.00 disk (minimum of 10 programs)

PRODUCT NAME: Ruler Fraction Product Code:CC50

Determine the position of the spaceship on the given ruler simulation, and get a ride on the spaceship. Ten problem series with summary at end. Series of hints are given to help determine correct answer. Two level choice given. Primary, Intermediate.

HARDWARE REQUIREMENTS: 8K PET (both old and new ROM's)

AVAILABLE FROM: Microcomputers in Education \$6.00 cassette tape
\$4.00 disk (minimum of 10 programs)

EDUCATION

PRODUCT NAME: Calendar Product Code:CC51

Practice in learning the days of the week, and/or months of the year. Run of 10 problems with summary at end. Choice of "multiple choice" or "type in answer" answers. Primary.

HARDWARE REQUIREMENTS: 8K PET (both old and new ROM's)

AVAILABLE FROM: Microcomputers in Education \$6.00 cassette tape
\$4.00 disk (minimum
of 10 programs)

PRODUCT NAME: Fractions 1 Product Code:CC52

Practice in determining if the shape is divided in half, thirds, or fourths. Examples of $1/4$, $1/3$, or $1/2$ are given before drill begins on level 1. If the showing of examples is not necessary, level 2 goes directly into problems. At level 2, if incorrect answers are given, the program automatically goes back to level 1 for help. Series of 6 problems given at a time. Primary.

HARDWARE REQUIREMENTS: 8K PET (both old and new ROM's)

AVAILABLE FROM: Microcomputers in Education \$6.00 cassette tape
\$4.00 disk (minimum
of 10 programs)

PRODUCT NAME: Fractions 2 Product Code:CC53

Practice in determining how many fourths, thirds, and halves are shown on the screen. Examples of $1/4$, $2/4$, $3/4$, $4/4$, $1/3$, $2/3$, $3/3$, $1/2$, and $2/2$ are given before drill begins. Nine problems within a run. Hints are given to help determine correct answer. Primary, Intermediate.

HARDWARE REQUIREMENTS: 8K PET (both old and new ROM's)

AVAILABLE FROM: Microcomputers in Education \$6.00 cassette tape
\$4.00 disk (minimum
of 10 programs)

EDUCATION

PRODUCT NAME: Add Facts 0-5 Product Code:CC55

Timed addition drill for one minute or 40 problems. Both vertical and horizontal format used. Summary at end of run. Problems given for sums 0-5. Primary.
HARDWARE REQUIREMENTS: 8K PET (both old and new ROM's)

AVAILABLE FROM: Microcomputers In Education \$6.00 cassette
\$4.00 disk (minimum of 10 programs)

PRODUCT NAME: Subt. Facts 0-5 Product Code:CC56

Timed subtraction drill with a choice of 40 problems timed, or one minute of problems. Vertical and horizontal format used. Summary at end of run. Problems given for differences of 0-5. Primary.
HARDWARE REQUIREMENTS: 8K PET (both old and new ROM's)

AVAILABLE FROM: Microcomputers In Education \$6.00 cassette tape
\$4.00 disk (minimum of 10 programs)

PRODUCT NAME: Mult Facts 0-25 Product Code:CC57

Timed multiplication drill for products 0-25. Choice of 40 problems timed, or one minute of problems. Summary given at end of run. Intermediate.
HARDWARE REQUIREMENTS: 8K PET (both old and new ROM's)

AVAILABLE FROM: Microcomputers in Education \$6.00 cassette tape
\$4.00 disk (minimum of 10 programs)

PRODUCT NAME: Div. Facts 0-25 Product Code:CC58

Timed division drill for dividend 0-25. Choice of 40 problems timed, or one minute of problems. Summary given at end of run. Intermediate.
HARDWARE REQUIREMENTS: 8K PET (both old and new ROM's)

AVAILABLE FROM: Microcomputers In Education \$6.00 cassette tape
\$4.00 disk (minimum of 10 programs)

PRODUCT NAME: Dictionary Product Code:CC59

Learn and practice use of the dictionary. Three levels of difficulty. After three consecutive correct answers, program automatically moves to next level. Program ends

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after three correct answers are given in third level.
Primary.

HARDWARE REQUIREMENTS: 8K PET (both old and new ROM's)

AVAILABLE FROM: Microcomputers In Education \$6.00 cassette tape
\$4.00 disk (minimum
of 10 programs)

PRODUCT NAME: End It Product Code:CC60

Practice in adding endings to root words. Choice of
four different ways to add endings. Run of 10 problems,
with summary at end. Primary, Intermediate.

HARDWARE REQUIREMENTS: 8K PET (both old and new ROM's)

AVAILABLE FROM: Microcomputers in Education \$6.00 cassette tape
\$4.00 disk (minimum
of 10 programs)

PRODUCT NAME: Homophones Product Code:CC61

Practice in using words that sound the same but are
spelled differently. Run of 10 problems. Choice of
practice or tutorial type problems. Intermediate.

HARDWARE REQUIREMENTS: 8K PET (both old and new ROM's)

AVAILABLE FROM: Microcomputers In Education \$6.00 cassette tape
\$4.00 disk (minimum
of 10 programs)

PRODUCT NAME: Tic-Tac-Spell Product Code:CC62

A version of the "Tic-Tac-Toe" game, that provides
practice in spelling. Designed for two people.
Primary- Intermediate.

HARDWARE REQUIREMENTS: 8K PET (both old and new ROM's)

AVAILABLE FROM: Microcomputers In Education \$6.00 cassette tape
\$4.00 disk (minimum
of 10 programs)

PRODUCT NAME: Inequalities Product Code:CC54

Practice, using a fishing simulation, in deciding if
one given number is greater than, less than, or equal to
another given number. Graphics are used. Summary
provided after 10 correct answers have been given.

HARDWARE REQUIREMENTS: 8K PET (both old and new ROM's)

AVAILABLE FROM: Microcomputers in Education

EDUCATION

PRODUCT NAME: Ruler Fractions Product Code:CC50

Get a ride on a spaceship by determining the position of the spaceship on the given ruler simulation. Drill practice program in Math. Ten problem series given with summary at end. Series of hints are given to help determine correct answer. Choice of two levels. Primary, Intermediate.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Microcomputers In Education

PRODUCT NAME: Algebra

This is a series of programs designed to assist a student through various levels of the subject. Topics include: set operations, signed arithmetic, linear equations, factoring, and quadratic equations. An example of each class of problem is given, followed by a changing sequence of problems to be solved by the student. After each problem, an answer is provided to check results. Excellent for a review, or to be used concurrently with a course.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Tycom Associates \$19.95 (7 programs on 1 cassette) or \$29.95 (1 program per cassette)

PRODUCT NAME: French

This set of programs is intended as a vocabulary builder for the French student. Several modes of operation exist for both noun and verb practice. The user may choose to be passively drilled, with the computer supplying English words followed by the French equivalent at regular time intervals, or may choose to be a participant. As a participant, the user may opt for multiple choice answers, or may supply one. In both modes, the computer tallies answers and gives a final score. (2 programs).

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Tycom Associates \$15.95

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PRODUCT NAME: VOCAB

VOCAB is an English vocabulary builder. Through the use of synonyms, the student learns to associate the meaning of new words. The programs can be operated in two modes. The first mode presents a list of synonyms, a page at a time, for student study. The second mode quizzes the student by asking questions such as "I am thinking of a 5 letter word meaning severe. what is the word?" The student has several chances to answer, and may be given clues, such as "My word starts with 'AC'".

The programs can be useful for Junior High School to College level students, depending on the individual. The VOCAB tape contains 2 programs: VOCAB1 (easier words), and VOCAB2 (harder words). Each tape contains over 750 word pairs (1140 words).

HARDWARE REOUIREMENTS: Contact dealer.

AVAILABLE FROM: Tycom Assocites \$15.95 (two programs)

PRODUCT NAME: Trigonometry Product Code:03

This program will be of special interest to educators, engineers, scientists. Appreciation program designed to take the burden out of your trig calculations! Given any three quantities of a triangle, the unknown quantities will be instantly calculated and printed. Professionally written with graphics and internally protected against illegal quantities.

HARDWARE REOUIREMENTS: Contact dealer.

AVAILABLE FROM: P. S. Software House \$9.95 (cassette)

PRODUCT NAME: Math Tutor Product Code:01

Grade school level; students select the category they wish to work in: addition, subtraction, division or multiplication. This program is unique with its oversized numbers, using the student's own name and lots of pats on the back for encouragement.

HARDWARE REOUIREMENTS: Contact dealer.

AVAILABLE FROM: P. S. Software House \$5.95 (cassette)

PRODUCT NAME: States and Capitals Product Code:02

Learn the states and their capitals; multiple choice or

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fill in the answers.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: P. S. Software House \$5.95 (cassette)

PRODUCT NAME: Understanding Your PET/CBM Product Code:Pet Voll
Vol I Basic Programming

248 page softcover book that combines five of the successful TIS workbooks. In addition, discussions for both ROM's are integrated into the text, there's a ROM summary chapter, plus a comprehensive index to all topics. Linus, the friendly TIS lion, is featured throughout.

AVAILABLE FROM: Total Information Services \$14.95

PRODUCT NAME: PET Graphics Product Code:WB-3

52 page softcover booklet that will help you use one of the most powerful features of the PET/CBM. Explains the use of cursor control and special graphics symbols to draw plots, histograms, and sketches. Describes how to use POKE to directly display information on the display screen.

AVAILABLE FROM: Total Information Services \$4.95

PRODUCT NAME: Schoolpac-1 Product Code: School-Pac-1 F or C

This package contains a number of programs designed to help a teacher compose tests or study helps for the classroom. Different versions allow the teacher to LOCK the program so students cannot STOP, LIST, or PRINT the program. They will allow multiple choice, or fill-in, stacked or side by side answers. Some versions even give a summary of scores of each student by name, and shows it on screen or prints to the printer. All programs allow the teacher to program the tests for their own Questions & Answers, on any subject, and SAVE for use anytime on Cassette or Disk. A Multi-Featured Memory Test is also included, along with Program Listings, and Backup Copies.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Competitive Software \$34.95 + \$2 shipping

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PRODUCT NAME: Vitafacts Series

Vitafacts is a series of 6 health education topics, approved by the Canadian College of Family Physicians.

Topics include:

Drinking & Drugs -	502156
Talking About Sex -	502206
Heart Attacks -	502306
Your Blood Pressure -	502356
Growing Up -	502106
Birth Control -	502256

Combines taped (audio) discussion or group panel with computer aided instruction.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Personal Software \$19.95 each topic

PRODUCT NAME: The Human Body

The Human Body: An Overview

Introduction to the Human Body

The Skeletal System

The Muscular System

The Digestive System

The Respiratory System

The Circulatory System

The Nervous System

Review and Test

HARDWARE REQUIREMENTS: 16K PET

AVAILABLE FROM: Brain Box \$59.95

PRODUCT NAME: The Skeletal System

The Skeletal System

The Central Skeletal System

The Limbs

Ligaments/Cartilage

Joints

Review and Test

HARDWARE REQUIREMENTS: 16K PET

AVAILABLE FROM: Brain Box \$39.95

EDUCATION

PRODUCT NAME: The Muscular System

The Muscular System
How Muscles Work
Voluntary Muscles
Involuntary Muscles
Cardiac Muscle
Muscle Fatigue
Review and Test
HARDWARE REQUIREMENTS: 16K PET

AVAILABLE FROM: Brain Box \$46.95

PRODUCT NAME: The Nervous System

The Nervous System
Hearing
Sight
Smell
Touch
Taste
Review and Test
HARDWARE REQUIREMENTS: 16K PET

AVAILABLE FROM: Brain Box \$46.95

PRODUCT NAME: Introduction to the Four Basic Reading Skills

The first title in any Reading Series must be reviewed first, as it previews the skills to be practiced in the rest of the Series.

Introduction To The Four Basic Reading Skills
The First Skill - How to Recall Details
The Second Skill - How to Identify the Main Idea
The Third Skill - How to Draw Conclusions
The Fourth Skill - How to Put Things In Order
Review and Test of the Four Basic Reading Skills
HARDWARE REQUIREMENTS: 16K PET

AVAILABLE FROM: Brain Box \$39.95

PRODUCT NAME: Skillpractice Two

Titles Two through Eleven in each reading series provide skill practice through clever and informative stories. These ten "Skillpractice" lessons are equal in difficulty and thus not necessarily sequential.

EDUCATION

This series can be used for enrichment for bright youngsters, on level for high elementary school through junior high school, as remedial material for anyone - or just for personal enjoyment.

This Series provides guided skills with high interest and easy readability. The Reading Series is for age 10 and up.

Skillpractice Two
Lessons One through Five
From Electric Cars to Rent-A-Cow
HARDWARE REQUIREMENTS: 16K PET

AVAILABLE FROM: Brain Box \$39.95

PRODUCT NAME: Skillpractice Three

Skillpractice Three
Lessons One through five
From Shrimp Fisherman to the Man-in-the Moon
HARDWARE REQUIREMENTS: 16K PET

AVAILABLE FROM: Brain Box \$39.95

PRODUCT NAME: Skillpractice Four

Skillpractice Four
Lessons One through Five
From Pygmy Rabbits to Trolley Cars
HARDWARE REQUIREMENTS: 16K PET

AVAILABLE FROM: Brain Box \$39.95

PRODUCT NAME: Skillpractice Five

Skillpractice Five
Lessons one through five
From an Auto Race to Squeaky Shoes
HARDWARE REQUIREMENTS: 16K PET

AVAILABLE FROM: Brain Box \$39.95

PRODUCT NAME: Skillpractice Six

Skillpractice Six
Lessons One through Five

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From Rollerskates to the Life of Spiders
HARDWARE REOUIREMENTS: 16K PET

AVAILABLE FROM: Brain Box \$39.95

PRODUCT NAME: Word Elements - Series One

The Word Elements Series is written to increase spelling, reading, grammar, vocabulary and comprehension skills. This Series teaches the recognition and the use of parts of words. Each lesson explains the use of at least one prefix or suffix. The user can gradually increase language skills by concentrating on and mastering one affix at a time. This Series is for age 10 and up.

Word Elements - Series One

The Prefix Sub-

The Prefixes Uni-, Bi-, Tri-

The Prefixes Semi-, Hemi-, Demi-

The Prefixes Inter-, Intra-, Trans-

HARDWARE REOUIREMENTS: 8K PET

AVAILABLE FROM: Brain Box \$39.95

PRODUCT NAME: Word Elements - Series Two

Word Elements - Series Two

The Prefix Mal-

The Prefix Mis-

The Prefix Dis-

The Prefix Dys-

Review and Test

HARDWARE REOUIRFEMENTS: 16K PET

AVAILABLE FROM: Brain Box

PRODUCT NAME: Word Elements - Series Three

Word Elements - Series Three

The suffix -meter

The suffix -meter in the metric system

The suffix -gram

The suffix -gram in the metric system

Review and Test

HARDWARE REOUIREMENTS: 16K PET

AVAILABLE FROM: Brain Box \$39.95

EDUCATION

PRODUCT NAME: Word Elements - Series Four

- The Suffix -ess
 - The Suffix -fy
 - The Suffix -ize
 - The Suffix -ic
 - The Suffix -ical, -ically
 - Review and Test
- HARDWARE REQUIREMENTS: 16K PET

AVAILABLE FROM: Brain Box \$46.95

PRODUCT NAME: Word Elements - Series Five

- Word Elements - Series Five
- The Prefix In-
 - The Prefix En-
 - The Prefix Ex-
 - The Prefix Out-
- HARDWARE REQUIREMENTS: 16K PET

AVAILABLE FROM: Brain Box \$39.95

PRODUCT NAME: Word Elements - Series Six

- Word Elements - Series Six
- The Prefix Audi-
 - The Prefix Tele-
 - The Prefix Phono-
 - The Prefix Photo-
 - The Prefixes Stereo-, Video-
 - Review and Test
- HARDWARE REQUIREMENTS: 16K PET

AVAILABLE FROM: Brain Box \$46.95

PRODUCT NAME: Word Elements - Series Seven

- The Suffix -ee
 - The Suffix -or
 - The Suffix -eer
 - The Suffix -ster
 - Review and Test
- HARDWARE REQUIREMENTS: 16K PET

AVAILABLE FROM: Brain Box \$39.95

EDUCATION

PRODUCT NAME: Word Elements - Series Eight

Word Elements - Series Eight
The Prefix Ped-
The Prefix Derm-
The Prefixes Dent-, Ortho-
The Prefix Manu-
Review and Test
HARDWARE REQUIREMENTS: 16K PET

AVAILABLE FROM: Brain Box \$39.95

PRODUCT NAME: Word Elements - Series Nine

Word Elements - Series Nine
The Suffix -ish
The Suffix -ism
The Suffix -ist
The Suffix -ine
Review and Test
HARDWARE REQUIREMENTS: 16K PET

AVAILABLE FROM: Brain Box \$39.95

PRODUCT NAME: Word Functions

This series teaches language concepts, grammar and parts of speech. For age 9 and up.

Word Functions
Homonyms
Synonyms
Antonyms
Homonym Matching Game
Second Synonym Lesson
Troublesome Words (to, too, two)
Troublesome Words (it's, its)
Review and Test
HARDWARE REQUIREMENTS: 16K CPU

AVAILABLE FROM: Brain Box \$39.95

PRODUCT NAME: Grammar: Nouns - Series One

For ages 11 and up
Proper Nouns
Capitalization: Titles are Tricky
Special Classes of Nouns

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Common Nouns
Review and Test
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Brain Box \$39.95

PRODUCT NAME: Math Drill Product Code: B&B-MD

Program generates random addition, subtraction, multiplication and division problems. Maximum numbers used are set by user. User chooses drill with either integers or decimals. A section of programs allows a teacher to set up drill for entire class; record will be kept for each student on a data tape giving score on each type of operation. Scores below teacher-chosen cutoff are displayed in reverse video to aid in quick identification of student problem areas.
HARDWARE REQUIREMENTS: 8K and Cassette.

AVAILABLE FROM: Bits & Bytes \$19.95

PRODUCT NAME: Basic First Aid Product Code: B&B-BFA

These six programs are interactive, computer-assisted instruction in which new material is presented and reviewed with the student. A mid-term and final exam are included. Program covers the life-threatening situations: shock, poisoning, burns, heart attack, choking, stroke, drowning, heat emergencies, and eye injuries.
HARDWARE REQUIREMENTS: 8K PET and a single tape unit. Works with any ROM series.

AVAILABLE FROM: Bits & Bytes \$19.95

PRODUCT NAME: Biology I

BUFLO	Explores effect of harvesting policies on buffalo population.
MALAR	Researches factors involved in simulated malaria epidemic.
POP	Student studies validity of several population growth models (4K).
RATS	Simulates effects of environmental and control factors on rat population.
STERIL	Investigates effectiveness of two methods of pest control.

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STERL2 Extension of STERL1 to include cost analysis.
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Project LOCAL \$17.95

PRODUCT NAME: Biology II

DIET Retrieves from nutrient data base to explore diet adequacy.
GENE1 Simulates inheritance of traits according to Mendelian model.
HARDY Simulates formulation of Hardy-Weinburg genetic principle.
LOCKEY Investigates lock and key model of enzyme specificity.
PHOSYN Student explores effects of amounts of CO2 and light on photosynthesis.
TAG Simulates use of tagging/recovery in measuring wildlife population.
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Project LOCAL \$17.95

PRODUCT NAME: Ecology I

EARTH Retrieves from data base to investigate global energy situation.
ENERGY Explores effects of several factors on U.S. energy crisis.
FUTURE Simulates potential effects of President Ford's 1975 energy plan.
LIMITS Simulation that explores effects of civilizations' growth.
POLUT Simulation for study of factors affecting H2O quality.
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Project LOCAL \$17.95

PRODUCT NAME: Elementary I

BAGELS Three-letter-word guessing game (4K).
COINS Practice computing value of random coin combinations (4K).
MUGWUMP Game involving logic, use of X-Y Coordinates (4K).
KEYBOARD "Warm-up" game for beginning computer

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users.
 ADDITION Practice addition problems; 4 difficulty levels.
 HARDWARE REOUIREMENTS: Contact dealer.

AVAILABLE FROM: Project LOCAL \$10.95

PRODUCT NAME: Elementary II

BAGELS Three-digit-number guessing game (4K).
 HMRABI Economic decision-making (simple Sumerian Game-4K).
 HURKLE Game involving problem-solving, X-Y coordinates (4K).
 SCIENCE Science fair project - computer uses in science.
 HARDWARE REOUIREMENTS: Contact dealer.

AVAILABLE FROM: Project LOCAL \$9.95

PRODUCT NAME: Mathematics I

FRAC Practice with word problems involving fractions and decimals.
 CVAREA Approximates area under curve by 4 methods (4K).
 JOGRAPH Graphs user-defined functions (4K).
 POINTS Practice using Cartesian coordinates.
 HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Project LOCAL \$8.95

PRODUCT NAME: Physics I

CHARGE Simulates Millikan oil drop experiment (4K).
 SCATR1 Computes distribution of scattered alpha particles (4K).
 SCATR2 Graphs simulated alpha scattering, 3 models of atom.
 SCATR3 Plots simulated alpha scattering after Rutherford.
 SLITS Simulates Young's double-slit experiment.
 HARDWARE REOUIREMENTS: Contact dealer.

AVAILABLE FROM: Project LOCAL \$14.95

PRODUCT NAME: Potpourri

CLIMATE Practice identifying climates, climatic

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patterns.
MAD-LIB Practice identifying parts of speech - but fun (Eng.).
PCP Tutorial on finding % composition of compound (chem.).
SAP Computes statistics for survey data (social studies).
STATAL Finds mean, median, standard deviation (statistics, teacher aid).
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Project LOCAL \$15.95

PRODUCT NAME: Social Studies I

ELECT3 Role-playing simulation of campaign and election.
BALPAY Simulates factors affecting U.S. balance of payments.
ELECT1,2 Explores campaign strategies in past presidential elections.
MASPAR Explores factors affecting mass political participation.
POLICY Simulates effects of interest groups on U.S. economy.
POLSYS Simulates municipal political processes.
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Project LOCAL \$17.95

PRODUCT NAME: PRO-CAL-1

This program supports single key execution of more than 50 forward and inverse arithmetic, algebraic, trigonometric and exponential functions. It implements calculations in binary, octal, decimal, and hexadecimal modes, with single keystroke conversion between modes and simultaneous decimal equivalent display.
The program uses the PET monitor to display 10 memory registers, 5 stack registers and a record of the 14 most current input/output operations to permit instant checking of procedures and results. It also allows the recording and playback of calculator programs on cassette permitting the use of most calculator software already in existence up to a limit of 255 steps.
Written in BASIC and machine language, the program comes complete with software on cassette and an operating manual.
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Applications Research Co. \$26.00 domestic
\$28.00 foreign

EDUCATION

PRODUCT NAME: MicroMath

MicroMath is a review mathematics course which can be used by students in grades 8 to 12. The course is made up of a total of 93 lessons and 16 tests in 18 units and is a full one semester course. 152 page workbook is included.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Sheridan College \$500.00

PRODUCT NAME: MicroMath (Geometry)

The 5 units (totalling 20 objectives) provide the student with instructions and testing in basic geometry including: Plane Geometry (6 objectives); Geometry of the Circle (3 objectives); Geometry of 3-D Objects (3 objectives); Graphs (4 objectives); and Introduction to Trigonometry (4 objectives). Accompanied by a 125 page workbook.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Sheridan College \$100.00

PRODUCT NAME: Descriptive Statistics

Made up of 6 programs, this series teaches students the basic concepts and procedures of descriptive statistics. It makes good use of the PET graphics and is useful at the grade 7 - 12 level. The programs in the series are: Average; Grouped Data; Coding Methods; Frequency Distribution & Mode; Median; and Summary.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Sheridan College \$100.00

PRODUCT NAME: 6502 Machine Language

This program consists of 14 units introducing students to the basic concepts of 6502 machine language: Registers; Addressing Modes (LDA); The Store Instruction; 6502 Programming Concepts; Index Register Instructions; Flags and the Status Register; The Compare Instruction; The Branch Instructions; Addition and Subtraction; Jump to Subroutine, Return From Subroutine, Jump; The Stack; Or & And; Multiply and Divide; Rotate

EDUCATION

Left, Rotate Right.

HARDWARE REOUIREMENTS: Contact dealer.

AVAILABLE FROM: Sheridan College \$150.00

PRODUCT NAME: Travel Counselling

This program provides students with a simulaton of an airline reservation system for actual business practice in the field of travel counselling.

HARDWARE REOUIREMENTS: Contact dealer.

AVAILABLE FROM: Sheridan College \$25.00

PRODUCT NAME: Typing

The 6 units in this basic typing package convert the PET keyboard to a standard typewriter keyboard and teach touch typing, including home row finger placement; keyboard locaton of alphabet and numerals; and drills for speed and accuracy with instant feedback.

HARDWARE REOUIREMENTS: Contact dealer.

AVAILABLE FROM: Sheridan College \$50.00

PRODUCT NAME: Photography

Made up of 16 programs, which make good use of the PET graphics, this series is useful at the high school. College and University level. The programs include: Light 1; Light 2; Light 3; Light Meter Methods; Negative Exposure; Photographic Process Control; Depth of Field; Depth of Field-Part 2; Depth of Focus, Part 1 and 2; Hyperfocal Distance, Part 1; Hyperfocal Distance, Part 2; Bellows Extension, Part 1; Bellows Extension, Part 2; and Decision Matrix.

HARDWARE REOUIREMENTS: Contact dealer.

AVAILABLE FROM: Sheridan College \$150.00

PRODUCT NAME: Nature of Systems

This 13 part series covers the concepts of systems, including: Basic Concepts; System Components 1; System Components 2; Emergent Properties; Level Structure; Feedback; Closed Systems; Open Systems; Discrete Systems; Continuous Systems; Trajectory Systems; Systems

EDUCATION

Classification; and The Systems Approach. Includes 10 page workbook.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Sheridan College \$100.00

PRODUCT NAME: Educational Package

30 Separate programs - directed toward the pre-school and elementary level.

Topics:

- pattern recognition - shapes, capital and small letters, numbers, simple words, simple addition and subtraction with 39 light pen.

- programs for grades 2 - 5: math. capitals, solar system, flash cards, long division tutorial, word and spelling bee.

HARDWARE REQUIREMENTS: 3G Light Pen

AVAILABLE FROM: Logic Design \$250.00

PRODUCT NAME: Word Skills I: Prefixes

Lively instruction in some common prefixes to help improve vocabulary, reading, and spelling skills. Students learn the meanings of a group of prefixes, practice putting the correct prefix before words, and also deduce the meaning of new words by analyzing the prefix and the root.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Program Design, Inc. \$14.95

PRODUCT NAME: Reading Comprehension

5 reading comprehension programs which present logical problems where the student picks the one word in four that doesn't belong with the rest. Builds analytical skills essential for understanding what you read.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Program Design, Inc. \$14.95

PRODUCT NAME: Preschool IQ Builder

Teaches vital cognitive skills that children must learn in order to do well in school. In part 1, Same and

EDUCATION

Different, the child discriminates between two forms. In part 2. Letter Builder. the child matches a letter on the display to one on the keyboard. Accompanying Parent's Guide gives instruction.
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Program Design, Inc. \$14.95

PRODUCT NAME: Analogies

Contains 6 programs that teach what an analogy is and what the common types are. It provides a method for analyzing analogies and provide practice in handling all types of analogies. Final lesson is an analogies test.
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Program Design, Inc. \$14.95

PRODUCT NAME: Number Series

Contains 8 programs that provide practice in a common math problem type. The first lesson teaches how to approach number series and how to analyze their patterns. Later lessons provide practice with increasingly difficult problems, giving clues if you have difficulty with the problem.
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Program Design, Inc. \$14.95

PRODUCT NAME: Vocabulary Builder 1

11 programs, including a set of graded vocabulary questions on synonyms and antonyms. The last lesson is a test on vocabulary. Total of 400 questions, 2000 words in course.
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Program Design, Inc. \$14.95

PRODUCT NAME: Vocabulary Builder 2

11 programs like those in vocabulary 1, but using a more advanced word list.
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Program Design, Inc. \$14.95

EDUCATION

PRODUCT NAME: Morse Code Game

Turns the PET into a Morse Code sender. Practice receiving code at different speeds, store messages in code, or play against another player.

HARDWARE REQUIREMENTS: 2nd cassette unit; user supplies inexpensive 6-volt DC Buzzer.

AVAILABLE FROM: Program Design, Inc. \$16.50

PRODUCT NAME: Code Breaker

3 scrambled message games of increasing difficulty that build basic word handling skills needed for good writing. First game scrambles letters within the words in the message; next 2 games scramble letters and also word order. Messages are made up by the computer from an extensive word list.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Program Design, Inc. \$14.95

PRODUCT NAME: Story Builder

Series of partially completed verses that the child completes. Teaches grammar skills in an enjoyable way. Word Master is a logic game where the child tries to guess a 3-letter word generated by the computer. Teaches reasoning and vocabulary.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Program Design, Inc. \$14.95

PRODUCT NAME: Memory Builder

A series of educational games to improve memory-attention span, and concentration. Letters and 3-letter words are used. Player has three options: play against the computer, play against him or herself, play against another player. Especially good for parent and child to play together.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Program Design, Inc. \$14.95

PRODUCT NAME: Step by Step

32 programs and a 64-page workbook teaches programming in BASIC for the beginner. Introduces all important

EDUCATION

BASIC commands and programming logic, including simple string logic and one-dimensional arrays. Lessons are interactive: they're presented in a question and answer format on the computer screen. The workbook adds extra information. Through instruction, structured practice and frequent skills testing, the user learns how to write BASIC programs.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Program Design, Inc. \$49.95

PRODUCT NAME: Pilot and Five Pilot Programs Product Code:Tape #1

This program contains an interpreter that lets the PET use the language and is optimized for programs with lots of dialog. PILOT was the subject of a feature article in the Fall 1979 issue of COMPUTE. The additional programs (including a fine version of Hammurabi) not only have tremendous value in themselves, but act as models to help the user learn the PILOT language.

HARDWARE REQUIREMENTS: For old and new ROM machines.

AVAILABLE FROM: Peninsula School Computer Project \$19.95

PRODUCT NAME: WSFN, Lemon, Kaleidoscope, Renumber Product Code:Tape #2

WSFN is not a radio station - it's a computer language which lets PET users create beautiful geometric figures while learning some valuable programming concepts at the same time. Lemmon is a time-tested simulation of a lemonade stand with a very well done display of the daily transaction summary. Kaleidoscope brings us back to graphics, but this time the user just watches while the computer does the work! Renumber goes a long way towards remedying the lack of a REM statement in Commodore's BASIC.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Peninsula School Computer Program \$14.95

EDUCATION

PRODUCT NAME: Titration, Kinetics, Bohr Atom, Product Code:
Redox CHEMPET #1

Subjects covered include; Titration with a simulated burst; Kinetics with an 80 x 50 data plot and a log plot; Bohr Atom, a study of one electron system; and Redox, a game simulation covering oxidation reduction potentials in metals.

HARDWARE REQUIREMENTS: 8K (old or new ROM's)

AVAILABLE FROM: Dr. William M. Butler \$40.00 set of 4
programs on cassette

PRODUCT NAME: Acids and Bases, Density, Product Code:
Organic ID, Thermochemistry CHEMPET #2

Subjects covered include; density calculations with simulated water displacement volume determination; Thermochemical calculations and measurements using a calorimeter; Acid and base pH calculations; and identification of an organic unknown.

HARDWARE REQUIREMENTS: 8K (old or new ROM's)

AVAILABLE FROM: Dr. William M. Butler \$40.00 set of 4
programs on cassette

PRODUCT NAME: Catch The Rhyming Fish Product Code: RE-12

A word flashes on and off at the top of the screen. Then, three fish begin pulling other words across the screen. One of these words rhymes with the word at the top of the screen. The student uses a fishing pole to catch the right answer fish. Learner's performance is summarized. P

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Micro-Ed \$7.95

PRODUCT NAME: Hard and Soft C Product Code: SP-8

Each problem in this program consists of a word containing either a soft C or a hard C. The student is to identify the C for the problem word by pressing S for a soft C or K for a hard C. Each problem word is randomly selected from a bank of fifty words. Each lesson consists of ten problems. Student's performance is summarized. I,J

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Micro-Ed \$7.95

EDUCATION

PRODUCT NAME: Hard and Soft G Product Code:SP-9

Each problem in the program consists of a word containing either a soft G or a hard G. The student is to identify the G in the problem word by pressing J for soft G or G for hard G. Each problem word is randomly selected from a bank of fifty words. Each lesson consists of ten problems. Student's performance is summarized. I,J

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Micro-Ed \$7.95

PRODUCT NAME: Homonym Machine Product Code:VO-4

The computer randomly selects a pair of words with the same sound but different meanings. One of the words is displayed flashing on and off in the upper left corner of the screen. What is the other word, the one that is the homonym? Learner's performance will be summarized. P,I

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Micro-Ed \$7.95

PRODUCT NAME: Classroom Management Product Code:TA

PROJECT BASIC

This package is a series of well thought out programs that make student record keeping a whiz. Now, administrators, principals, teachers and parents can obtain student Basic Skills Records when needed - all without the problems normally associated with updating complicated student files. You can search for information and compile reports, without worrying about errors. Programs also automatically score district-selected standardized tests or diagnostic tests.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Evan Newton, Inc. \$795.00 (1 Copy)
(Multi-copy price available)

EDUCATION

PRODUCT NAME: Administrative Package

There are five separate modules in the series:

Daily and cumulative attendance reporting. The attendance bulletin can be informatively annotated prior to completion. Complete search capability.

Schedule updates including the generation of new class lists, student schedules and add-drop forms. All section changes are recorded and true class counts and an up-to-date school course directory may be generated.

Complete exam scoring and detailed item analysis of all standardized objective tests. The same data base associated with the attendance and scheduling features is accessed by this module. A mark sense card reader is a required hardware component here.

End of marking period report cards and cumulative school record production for each student. Generation of class ranking and honor roll search also available.

Production of mailing labels addressed to parents of general or selected groups of students.

HARDWARE REQUIREMENTS: 32K CBM, 4040 Disk and Printer

AVAILABLE FROM: MicroPhys \$250.00-\$2500.00
(Multi-district discount available)

PRODUCT NAME: Identifying Complete Sentences Product Code:RE-9

Groups of words are presented on the screen. For each group, the student must identify whether or not it is a complete sentence. Student's performance is summarized. I,J

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Micro-Ed \$7.95 (cassette)

PRODUCT NAME: Its/It's - Your/You're Product Code:WD-3

This program provides drill and practice problems using troublesome homonyms. Problems are randomly sequenced and drawn from a larger bank of problems. Student's performance is summarized. P,I,J

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Micro-Ed \$7.95 (cassette)



EDUCATION

PRODUCT NAME: Lay/Lie Product Code:WD-5

This program instructs the student in the proper use of the verbs lay and lie. Twenty problems are then given requiring the student to select the appropriate verb. Student's performance is summarized. I,J,S
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Micro-Ed \$7.95 (cassette)

PRODUCT NAME: Make A Sentence Product Code:RE-10

Some scrambled words appear on the screen. For each group, the student must identify whether or not it is a complete sentence. Student's performance is summarized. This program uses sound. P
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Micro-Ed \$7.95 (cassette)

PRODUCT NAME: Matching Capital Letters 1 Product Code:RE-3

A large capital letter appears on the screen. What letter on the computer keyboard matches it? The student tries to find and press the key with the matching letter. If the student does not know the answer and types the question mark, the computer will give the answer. P
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Micro-Ed \$7.95 (cassette)

PRODUCT NAME: Matching Capital Letters 2 Product Code:RE-4

A large capital letter is displayed on the screen. Then two or more letters appear. One letter of this pair matches the first letter. Which one? The student places the point of the light pen on a small square associated with the letter of his/her choice. Summary of student's performance is displayed. P
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Micro-Ed \$7.95 (cassette)

EDUCATION

PRODUCT NAME: Matching Words 1 Product Code:RE-7

Each problem consists of a moving word and two possible matching words randomly selected from a bank of 40 pairs of words. The student must choose the matching word. Student's performance is summarized. P
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Micro-Ed \$7.95 (cassette)

PRODUCT NAME: Matching Words 2 Product Code:RE-8

A word appears. Then two more words appear. One word of this pair matches the first word. Which one? The student places the point of his light pen on a small square associated with the answer of his/her choice. Student's performance is displayed.
HARDWARE REQUIREMENTS: 3G Light Pen

AVAILABLE FROM: Micro-Ed \$7.95 (cassette)

PRODUCT NAME: Misplaced or Dangling Modifiers Product Code:US-2

A phrase or clause modifying a word that it should not modify is a misplaced or dangling modifier. In this program, twenty sentences are presented in random sequence. Student must indicate for each sentence whether or not it needs to be re-written. Student's performance is summarized. I,J,S
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Micro-Ed \$7.95 (cassette)

PRODUCT NAME: The Noun Product Code:R-2

Common and proper nouns. Subject matter is first defined and taught through examples. Learner is tested. Performance is summarized. I,J
HARDWARE REQUIREMENTS:

AVAILABLE FROM: Micro-Ed \$7.95 (cassette)

EDUCATION

PRODUCT NAME: Punctuation Series Product Code:PU-4

These lessons provide drill and practice using a standardized test format. The computer randomly selects and presents a problem sentence. The student must identify where a mistake in punctuation occurs. As the learner responds, the computer not only says whether the answer was right or wrong, but sets forth the applicable rule for the correction. I,J,S

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Micro-Ed \$56.00 (8 tapes)

PRODUCT NAME: Reading Racer One Product Code:RE-2

This program is designed to give a student practice in reading six short passages at a speed chosen by the student. After each passage, a comprehension question is asked. Student's performance is summarized. I,J

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Micro-Ed \$7.95 (cassette)

PRODUCT NAME: Run-On Sentences Product Code:PU-1

Each problem consists of a group of words that should be divided into two sentences. The learner moves an arrow across the screen and places it after the word that should end the first sentence. Each lesson consists of from eleven to sixteen problems. Learner's performance is summarized. I,J

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Micro-Ed \$7.95 (cassette)

PRODUCT NAME: Sit/Set Product Code:WD-4

The proper use of the verbs sit and set is explained. Twenty problems are then given requiring learner's response. Performance is summarized. I,J,S

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Micro-Ed \$7.95 (cassette)

EDUCATION

PRODUCT NAME: Spelling Level A (second grade) Product Code:SP-2

Programs consist of a total of 36 lessons with 10 words in each lesson. The words are used to represent a particular rule or pattern that is being taught, i.e. short A words, short vowel words ending with K, some irregularly spelled words, etc. P

AVAILABLE FROM: Micro-Ed \$49.95 (7 tapes)

PRODUCT NAME: Spelling Level B (third grade) Product Code:SP-3

Programs consist of a total of 36 lessons with 10 words in each lesson. The words are used to represent a particular rule or pattern that is being taught, i.e. short vowel words, adding ING to words that end with E, spelling homonyms, etc. P

AVAILABLE FROM: Micro-Ed \$49.95 (7 Tapes)

PRODUCT NAME: Spelling Level C (fourth grade) Product Code:SP-4

Programs consist of a total of 36 lessons with 10 words in each lesson. The words are used to represent a particular rule or pattern that is being taught, i.e. long and short A sounds, compound words, words with silent consonant letters, etc. I

AVAILABLE FROM: Micro-Ed \$49.95 (7 tapes)

PRODUCT NAME: Spelling Level D (fifth grade) Product Code:SP-4

Programs consist of a total of 36 lessons with 10 words in each lesson. The words are used to represent a particular rule or pattern that is being taught, i.e. long and short I sounds, words with AR or ARE, ED and ING endings for verbs, etc. I,J

AVAILABLE FROM: Micro-Ed \$49.95 (7 tapes)

PRODUCT NAME: SP-6 Spelling Level E (6th grade) Product Code:SP-6

Programs consist of a total of 36 lessons with 10 words in each lesson. The words are used to represent a particular rule or pattern that is being taught. i.e.

EDUCATION

one-syllable words with short vowel sounds, compound words with a vowel-R sounds, vowel sounds in soft syllable endings, etc. I,J

AVAILABLE FROM: Micro-Ed \$49.95 (7 tapes)

PRODUCT NAME: Subject and Predicate Product Code:GR-6

Subject matter is defined. Computer presents problems for the student to solve. Each problem is a sentence. The student is asked to identify the complete subject, the simple subject, the complete predicate, or the simple predicate. Learner's performance is summarized. I,J

AVAILABLE FROM: Micro-Ed \$7.95 (cassette)

PRODUCT NAME: Tachistoscope Product Code:RE-1

This program flashes small groups of words on the screen in random order. The student attempts to read each group at a glance, and then to reproduce it correctly at the computer keyboard. Five speeds are available. Student's performance is summarized. I,J

AVAILABLE FROM: Micro-Ed \$7.95 (cassette)

PRODUCT NAME: There/Their/They're Product Code:WD-2

This tape provides drill and practice using troublesome homonyms. Problems are randomly sequenced and drawn from a larger bank of problems. Student's performance is summarized. P,I,J

AVAILABLE FROM: Micro-Ed \$7.95 (cassette)

PRODUCT NAME: To/Too/Two Product Code:WD-1

This tape provides drill and practice using troublesome homonyms. Problems are randomly sequenced and drawn from a larger bank of problems. Student's performance is summarized. P, I

AVAILABLE FROM: Micro-Ed \$7.95 (cassette)

EDUCATION

PRODUCT NAME: Troublesome Pronouns Product Code:US-3

Most errors in using pronouns have to do with sentences that use a pronoun along with a noun, a proper noun, or another pronoun. Using a game format, twenty problems are given to the student to solve. Learner's performance is summarized. I,J,S

AVAILABLE FROM: Micro-Ed \$7.95 (cassette)

PRODUCT NAME: Usage Boners Product Code:US-1

This drill and practice series focuses on common mistakes in usage, such as lack of agreement between subject and verb, double negatives, etc. For each problem, the computer not only states whether the student's response is right or wrong, but also shows how the mistake in English usage presented in the problem should be corrected. There are ten problems in each lesson. Student's performance is summarized. I,J,S

AVAILABLE FROM: Micro-Ed \$99.00 (15 cassettes)

PRODUCT NAME: The Verb Product Code:GR-3

Action verbs, linking verbs, and verb phrases. Subject matter is defined and taught through examples. Learner is tested; performance is summarized.

AVAILABLE FROM: Micro-Ed \$7.95 (cassette)

PRODUCT NAME: Vocabulary Series Product Code:VO-2

This program consists of seventy-two lessons dealing with words commonly found in daily newspapers and weekly news magazines. Each problem presents a definition and sample sentence. The learner then chooses the vocabulary word that best fits. Words that gave trouble are listed. Learner's performance is summarized. I,J,S

AVAILABLE FROM: Micro-Ed \$168.00
(24 cassettes)

EDUCATION

PRODUCT NAME: Which Letter Comes Next? Product Code:RE-6

Three letters in sequence are presented. Which letter comes next? The student places the point of the light pen on a small square associated with the answer of his/her choice. A summary of the student's performance is displayed on the screen. P

HARDWARE REQUIREMENTS: Uses a 3G light pen.

AVAILABLE FROM: Micro-Ed \$7.95 (cassette)

PRODUCT NAME: Word Search Product Code:RE-11

Ten words are entered by the student, one at a time. The computer then hides these words within a grid of scrambled letters. Where is each word located? Student's performance is summarized. P,I
HARDWARE REOUIREMENTS: Contact dealer.

AVAILABLE FROM: Micro-Ed \$7.95 (cassette)

PRODUCT NAME: Adding or Subtracting Two and Three Place Numbers in Columns Product Code: MA-10

Addition or subtraction problems using two and three place numbers in columns. The learner works with each problem beginning with the units column on the right and moving left as guided by an arrow displayed under the appropriate column. If the learner does not know the correct answer, the question mark may be pressed and the computer will display the correct answer. Student's performance is summarized. I
HARDWARE REOUIREMENTS: Contact dealer.

AVAILABLE FROM: Micro-Ed \$7.95

PRODUCT NAME: Adding with Objects Product Code:MA-6

Each lesson presents ten randomly generated addition problems with sums up to twenty. Small diamond shapes representing the numbers to be added appear on the screen. If the learner answers wrong, the computer will give the right answer. If the learner presses the question mark, the computer will also give the right answer. Learner's performance is summarized. P
HARDWARE REOUIREMENTS: Contact dealer.

AVAILABLE FROM: Micro-Ed \$7.95

EDUCATION

PRODUCT NAME: Addition With Carry Product Code:MA-17

This program gives the learner practice in addition with a carry and allows him/her to design any size problem up to 9 rows and 9 columns. All problems are generated randomly so that a different problem will be presented each time the program is run. The learner works with each problem just as if he/she were doing it on a piece of paper. I,J

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Micro-Ed \$20.00

PRODUCT NAME: Bar Graph Product Code:MA-12

Drill and practice exercise using a bar graph with different pieces of information on it. There are ten problems in all. Learner's performance is summarized. I

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Micro-Ed \$7.95 (cassette)

PRODUCT NAME: Mathematics Product Code:CC51

Practice in learning the days of the week or months of the year. P

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Robbinsdale \$6.00 (cassette)

PRODUCT NAME: Clock Product Code:OT-5

This program presents problems in telling time by the hour or half-hour. Each lesson consists of twelve randomly selected clock faces showing various times. The learner answers by first typing the number of the hour. then a colon, then the minutes. Pressing the question mark key will cause the right answer to be revealed. Learner's performance is summarized. P

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Micro-Ed \$7.95 (cassette)

EDUCATION

PRODUCT NAME: Count 'Em Product Code:MA-2

From one to ten steam locomotives appear on the screen. Each problem presents a different number of locomotives. How many are there? If the student does not know the answer, and types the question mark, the computer will give the answer. Student's performance is summarized.
P

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Micro-Ed \$7.95 (cassette)

PRODUCT NAME: Greater Than/Less Than Product Code:MA-15

Program is designed to give practice in using the math symbol meaning greater than and the math symbol meaning less than. Ten problems are presented for each lesson. Student's performance is summarized. I

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Micro-Ed \$7.95 (cassette)

PRODUCT NAME: Math Bid Product Code:MA-1

Drill and practice problems in addition, subtraction, multiplication, or division are presented. A different choice can be made for each game. The difficulty level for each game can also be set. Program is an achievement motivation game. If student does not know the answer, and types the question mark, the computer will give the answer. I

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Micro-Ed \$7.95 (cassette)

PRODUCT NAME: Math Sequence Product Code:M1004

The programs are success oriented and provide structured drill with immediate feedback. Students work at their own pace toward mastering specific skills. Programs cover: addition, subtraction, multiplication, division, laws of arithmetic, negative numbers, fractions, decimals, percents.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Milliken \$200.00

EDUCATION

PRODUCT NAME: Math Shootout Product Code:MA-11

The idea of this program is to have the learner practice doing math exercises as fast as possible. Difficulty levels and time requirements can be set for any of four areas: addition, subtraction, multiplication, and division. Each lesson consists of ten problems. Learner's performance is summarized.
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Micro-Ed \$7.95 (cassette)

PRODUCT NAME: Digit Multiplication Product Code:MA-18

This program presents problems in multiplying a 3 digit number by a 1, 2, or 3 digit number, at the option of the learner. All problems are generated randomly so that a different problem will be presented each time the program is run. The learner works with each problem just as if he/she were doing it on a piece of paper.
I.J
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Micro-Ed \$20.00

PRODUCT NAME: Rounding Product Code:CC43

Round numbers to the nearest 10 - 100 - 1000 or ten-thousands place. I
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Robbinsdale \$6.00 (cassette)

PRODUCT NAME: Story Problems in Addition & Subtraction Product Code:MA-3

The computer presents an assortment of story problems in addition and subtraction. The student must read and understand what is being asked for before the problem can be correctly solved. If the student does not know the answer and types the question mark, the computer will give the answer. Student's performance is summarized. I
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Micro-Ed \$7.95 (cassette)

EDUCATION

PRODUCT NAME: Subtracting with Objects Product Code:MA-7

Each lesson presents two randomly generated subtraction problems with numbers from one to ten being subtracted from each other. Small arrows and diamond shapes represent this operation. If the learner's answer is wrong, the computer will give the right answer. If the learner presses the question mark, the computer will also give the right answer. Learner's performance is summarized. P

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Micro-Ed \$7.95 (cassette)

PRODUCT NAME: Target Math Product Code:MA-5

The learner selects problems in addition, subtraction, multiplication, or division at a difficulty level of his/her choice. Learner's performance is summarized. I

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Micro-Ed \$7.95 (cassette)

PRODUCT NAME: Timed Add Facts Product Code:CC55

Two types of timed practice for addition facts 0-5. P,I

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Robbinsdale \$6.00 (cassette)

PRODUCT NAME: Timed Division Facts Product Code:CC58

Two types of timed practice for division facts 0-5. P,I

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Robbinsdale \$6.00 (cassette)

PRODUCT NAME: Timed Multiplication Facts Product Code:CC57

Two types of timed practice for multiplication facts 0-5. P,I.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Robbinsdale \$6.00 (cassette)

EDUCATION

PRODUCT NAME: What Number Is Missing? Product Code:MA-4

Digits from 1 to 9 appear in sequence on the screen. But one of the digits is missing. Which one? Each lesson consists of ten problems randomly presented. If the student does not know the answer, typing the question mark will cause the right answer to be revealed. Student's performance is summarized. P
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Micro-Ed \$7.95 (cassette)

PRODUCT NAME: Which Number Comes Next? Product Code:MA-13

For each problem, three numbers in sequence between 1 and 20 are presented, followed by a blank. What belongs in the blank? It is the next number in sequence. Two possible answer choices are presented. Each lesson consists of sixteen problems randomly presented. Student's performance is summarized. P
HARDWARE REQUIREMENTS: Uses 3G light pen.

AVAILABLE FROM: Micro-Ed \$7.95 (cassette)

PRODUCT NAME: Dictionary Guide Words Product Code:RS-1

At the top of each page in a dictionary are two words called guide words. The first guide word is the same as the first entry word on that page. The second guide word is the same as the last entry word on that page. The student is to match a word with the pair of guide words that represent the dictionary page on which it would be found. Computer lists the words that were not matched correctly.
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Micro-Ed \$7.95 (cassette)

PRODUCT NAME: Library Terms Product Code:RS-2

The student is given sixteen library terms and a series of statements. The student is to match each statement with the term that best fits it. If the student does not know the answer, pressing the question mark key will cause the answer to be revealed. Student's performance is summarized.
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Micro-Ed \$7.95 (cassette)

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PRODUCT NAME: Making An Outline Product Code:RS-3

The computer presents an article for the student to read. The student must then finish a partly completed outline by selecting subtopics in the order in which they appear in the article. Student's performance is summarized. I,J

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Micro-Ed \$7.95 (cassette)

PRODUCT NAME: Putting Fiction Books In Alphabetical Order Product Code:RS-4

The rules for arranging fiction books alphabetically on library shelves are explained. Then two groups of fiction books are presented in sequence. The student is to list the books in each group in the order in which they would appear on library shelves. Student's performance is summarized. I,J

AVAILABLE FROM: Micro-Ed \$7.95 (cassette)

PRODUCT NAME: Higher. Same. Lower Product Code:MU-2

Each lesson consists of ten problems in which two notes are played. Is the second note higher than, lower than, or the same as the first note? Each pair of notes is randomly selected from a bank of sixty-seven pairs. Learner's performance is summarized. This program uses sound. I,J

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Micro-Ed \$7.95 (cassette)

PRODUCT NAME: Lines and Spaces of the Treble Clef Product Code:MU-1

Using whole notes, the computer teaches the student the names of the lines and spaces that make up the treble clef. As each note is displayed, it is sounded. A test is given in which notes are randomly displayed and sounded. This program uses sound. I,J

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Micro-Ed \$7.95 (cassette)

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PRODUCT NAME: Matching Equivalent Notes Product Code:MU-4

This program gives the student practice in matching equivalent notes on the treble clef. Each problem consists of the computer sounding and displaying a note selected at random. The student must type the name of the equivalent note. Each lesson consists of ten problems. Computer summarizes the results of the lesson. I,J . Program uses sound.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Micro-Ed \$7.95 (cassette)

PRODUCT NAME: Matching Rhythms Product Code:MU-3

The computer elects one of ten rhythmic patterns and plays this as it displays matching quarter notes and eighth notes on the screen. The learner attempts to match the rhythm by pressing the space bar. Ten rhythms in all are presented. This program uses sound. I,J

AVAILABLE FROM: Micro-Ed \$7.95 (cassette)

PRODUCT NAME: Direction and Distance Product Code:OT-2

This program uses a game format to teach primary grade children the eight directions of north, south, east, west, northeast, southeast, southwest, and northwest. Students must also estimate the distance between two objects on the screen. P

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Micro-Ed \$7.95 (cassette)

PRODUCT NAME: A Presidential Election Game

Hat in the Ring is a two-player exercise designed to acquaint students with some of the political considerations involved in running a presidential campaign. Throughout the exercise, students make decisions intended to result in a successful campaign. At the end of the game, the candidate with the majority

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of electoral votes wins. I,J,S
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Micro-Ed \$9.95 (cassette)

PRODUCT NAME: States and Capitals Product Code:OT-7

This program randomly selects either the name of a state (in which case the learner is to supply the name of its capital), or the name of its capital (in which case the learner is to supply the name of the state). I,J
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Micro-Ed \$7.95 (cassette)

PRODUCT NAME: Time Zones Product Code:OT-6

The focus here is telling time from one zone to another. The student will work with the following time zones: Alaska, Hawaii, Pacific, Mountain, Central, and Eastern. I,J
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Micro-Ed \$7.95 (cassette)

PRODUCT NAME: Trail West Product Code:OT-1

This is a game of options and events. The player tries to get to the gold fields of California, two thousand miles away. At the outset, some units of food, ammunition, clothes and supplies are available. Reserve units are also on hand. Reserve units can be transferred to other categories as needed. In order to win, the player must reach the gold field before running out of units in any category. I,J,S
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Micro-Ed \$7.95 (cassette)

PRODUCT NAME: The Adjective Product Code:GR-5

Program uses a game playing format to teach its subject matter. Each time the student answers a problem the upper lefthand corner of the screen reveals whether the answer is right or wrong. If student does not know the answer to a problem, typing the question mark will cause the answer to be revealed. Student's performance is

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summarized. I,J

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Micro-Ed \$7.95 (cassette)

PRODUCT NAME: The Adverb Product Code:GR-4

Subject matter is defined and taught. Student is tested on what has been presented. If student does not know the answer to a problem, the question mark can be typed and the computer will give the answer. Student's performance is summarized. I,J

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Micro-Ed \$7.95 (cassette)

PRODUCT NAME: Agreement of Subject and Verb Product Code:GR-1

Problems consist of sentences with missing words. Choices (singular or plural) are provided for each problem. The learner types the answer. Learner and computer have a steam engine race. Getting the answers right will help the learner win. Learner's performance is summarized. I,J

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Micro-Ed \$7.95 (cassette)

PRODUCT NAME: Antonym Machine Product Code:VO-3

The computer randomly selects a pair of words with opposite meanings. One of the words is displayed flashing on and off in the upper left corner of the screen. What is the other word, the one that is the antonym? After the learner responds, the antonym machine processes the first word so that it becomes its antonym. Learner's performance will be summarized. I,J

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Micro-Ed \$7.95 (cassette)

PRODUCT NAME: The Apostrophe Product Code:PU-2

This program teaches the use of the apostrophe. First, the subject matter is presented in an instructional format. Then the learner is tested on his/her understanding of this material. Learner's performance is

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summarized.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Micro-Ed \$7.95 (cassette)

PRODUCT NAME: Dropping The Final E Product Code:SP-10

Each problem begins with a base word. The first job of the student is to type the base word plus an "ed" or "ing" ending. Finally, working from an "ed" or "ing" ending, the student must type the base word. Each problem word has been randomly drawn from a bank of fifty words. Each lesson consists of ten problems. Student's performance is summarized.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Micro-Ed \$7.95 (cassette)

PRODUCT NAME: End Punctuation Product Code:PU-3

This program teaches the use of the three different kinds of punctuation marks that end sentences: the period, the question mark, and the exclamation point. The learner's performance is summarized.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Micro-Ed \$7.95

PRODUCT NAME: Guess That Word Product Code:SP-1

Instructional program for creating spelling lessons using words of your choice. Simply type in the words on the appropriate data lines. Multiple spelling lists can be entered. Program as it comes to you already has five lists of words. These lists can be changed simply by changing the data line entries.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Micro-Ed \$7.95 (cassette)

PRODUCT NAME: Haiku Product Code:OT-3

Haiku is a Japanese form of poetry. It calls for seventeen syllables in three lines. These lines have syllable counts of five, seven, and five. This unusual program can be used to encourage students to write creatively. Individual lines can be copied down on

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paper by the student for use in other poetry. The ability of the computer to revise its own poem, line by line, gives the student a chance to become a critical recognizer of good haiku. In a classroom setting, students explain why one group of syllables is acceptable while another misses the mark. I,J,S.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Micro-Ed \$7.95 (cassette)

PRODUCT NAME: Hangman 100 Product Code:CC13

Drill in spelling with 100 most commonly misspelled words at elementary grade level. I,J

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Robbinsdale \$6.00 (cassette)

PRODUCT NAME: Synonym Series Product Code:VO-1

This program series consists of fifteen lessons dealing with a total of 450 words. Each lesson works with thirty words divided into columns A and B. Words must be matched with the expressions which are synonyms. Synonyms that gave the learner trouble are listed. 3 tapes. S.C

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Micro-Ed \$21.00

PRODUCT NAME: Fast Add Product Code:CC3

Ten levels of difficulty for adding one and two digit numbers.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Robbinsdale \$6.00 (cassette)

PRODUCT NAME: Calorimetry Product Code:PC8

Generates a series of 4 questions dealing with the principle of calorimetry. The definition of specific heat capacity and the conservation of energy principle are thus reviewed.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Microphys \$20.00

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PRODUCT NAME: Calorimetry Analysis Product Code:PC306

This utility program is designed to solve the various time-consuming problems involved in the study of calorimetry. Substances undergoing changes in phase, as well as changes in temperature, may be dealt with by this problem

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Microphys \$20.00

PRODUCT NAME: Centripetal Force Product Code:PC6

Generates a series of 6 questions dealing with the analysis of the motion of a particle undergoing uniform circular motion.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Microphys \$20.00

PRODUCT NAME: Chemistry Analysis Product Code:PC307

This utility program is designed to solve problems involving the mole concept and molarity.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Microphys \$20.00

PRODUCT NAME: Chemistry Analysis II Product Code:PC308

This utility program is designed to provide solutions to problems involving normality, molarity, changes in freezing and boiling points of solutions.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Microphys \$20.00

PRODUCT NAME: Electric Field Analysis Product Code:PC35

Generates a series of 6 questions dealing with the work done in transferring a charged particle between two points in a uniform electric field.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Microphys \$20.00

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PRODUCT NAME: EMF Of Electrochemical Cells Product Code:PC34

Generates a series of questions in which the student determines the EMF of a randomly synthesized electrochemical cell.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Microphys \$20.00

PRODUCT NAME: Faraday's Law Product Code:PC22

Generates a series of questions dealing with the analysis of an electrolytic solution.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Microphys \$20.00

PRODUCT NAME: Formulas Of Compounds Drill Product Code:PC39

Students are given practice in learning to write the formulas of randomly synthesized compounds.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Microphys \$20.00

PRODUCT NAME: Gas Law Analysis Product Code:PC303

This utility program is designed to solve a large variety of problems in which gases undergo isothermal, isobaric, isovolumic, and general processes.

AVAILABLE FROM: Microphys \$20.00

PRODUCT NAME: General Gas Law Product Code:PC12

Generates a series of questions dealing with the behavior of a gas undergoing a general process in which all three thermodynamic variables may change.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Microphys \$20.00

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PRODUCT NAME: Gram-Molecular Mass Product Code:PC23
Randomly synthesizes inorganic compounds whose gram-molecular masses are to be determined. The writing of chemical formulas is also thus reviewed.
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Microphys \$20.00

PRODUCT NAME: Heats Of Fusion/Vaporization Product Code:PC10
Generates a series of 3 questions dealing with the concepts of fusion and vaporization.
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Microphys \$20.00

PRODUCT NAME: Inelastic Collisions Product Code:PC5
Generates a series of seven questions dealing with the analysis of an inelastic collision. The concepts of linear momentum and kinetic energy are reviewed.
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Microphys \$20.00

PRODUCT NAME: Linear Kinematics Product Code:PC1
Generates a series of 5 questions dealing with linear motion and the analysis of a graph of instantaneous speed versus time.
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Microphys \$20.00

PRODUCT NAME: Longitudinal Standing Waves Product Code:PC16
Generates a series of 4 questions dealing with the longitudinal wave pattern established in open and closed organ pipes.
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Microphys \$20.00

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PRODUCT NAME: Mirrors And Lenses Product Code:PC17

Generates a series of 5 questions dealing with the image-forming properties of convex and concave mirrors and lenses.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Microphys \$20.00

PRODUCT NAME: The Molality Concept Product Code:PC27

Generates a series of questions dealing with the concepts of gram-molecular mass and molality.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Microphys \$20.00

PRODUCT NAME: The Molarity Concept Product Code:PC25

Generates a series of 3 questions dealing with the concept of molarity; the mole concept is also reviewed.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Microphys \$20.00

PRODUCT NAME: The Mole Concept Product Code:PC24

Generates a series of questions which deals with the mole concept and the writing of chemical formulas.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Microphys \$20.00

PRODUCT NAME: Momentum And Energy Product Code:PC3

Generates a series of 11 questions dealing with the concepts of linear momentum, impulse, and kinetic energy.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Microphys \$20.00

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PRODUCT NAME: Naming Compounds Drill Product Code:PC38

Students are given practice in learning to name randomly synthesized compounds whose formulas are given.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Microphys \$20.00

PRODUCT NAME: The Normality Concept Product Code:PC26

Generates a series of questions dealing with the concepts of gram-molecular mass, gram-equivalent mass, and normality.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Microphys \$20.00

PRODUCT NAME: Parallel Circuit Analysis I Product Code:PC20

Generates a series of 10 questions dealing with the analysis of a parallel circuit consisting of three resistors and a battery. The concepts of resistance, potential difference, and power are thus reviewed.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Microphys \$20.00

PRODUCT NAME: Parallel Circuit Analysis II Product Code:PC20A

Generates a series of 6 questions dealing with the analysis of a parallel circuit consisting of three resistors and a battery. The concepts of resistance, potential difference, and Ohm's Law are thus reviewed.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Microphys \$20.00

PRODUCT NAME: Percent Concentration Product Code:PC32

Generates a series of questions relating to the computation of the percent or fraction concentration of randomly generated solutions.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Microphys \$20.00

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PRODUCT NAME: pH Concept Product Code:PC33

Generates a series of questions dealing with the concept of pH and pOH. The student gains experience in working with logarithmic scales.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Microphys \$20.00

PRODUCT NAME: Photoelectric Effect Product Code:PC36

Generates a series of 4 questions dealing with the analysis of photoelectric emission from the surfaces of various randomly selected metallic cathodes.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Microphys \$20.00

PRODUCT NAME: Projectile Analysis Product Code:PC305

This utility program is designed to solve the general projectile motion problem. Time of flight, horizontal range, final velocity, and angle of impact are among the values determined.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Microphys \$20.00

PRODUCT NAME: Projectile Motion Product Code:PC2

Generates a series of 11 questions dealing with the analysis of a projectile in flight. The basic definitions of kinematics are thus reviewed.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Microphys \$20.00

PRODUCT NAME: Pulley System-Machines Product Code:PC7

Generates a series of 7 questions dealing with the analysis of a pulley system consisting of single, double, or triple fixed and moveable blocks. The concepts of work and efficiency are thus reviewed.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Microphys \$20.00

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PRODUCT NAME: Series Circuit Analysis Product Code:PC19
Generates a series of 10 questions dealing with the analysis of a series circuit consisting of three resistors and a battery. The concepts of resistance, potential difference, and power are thus reviewed.
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Microphys \$20.00

PRODUCT NAME: Series/Parallel Circuit Analysis Product Code:PC21
Generates a series of 6 questions dealing with the analysis of a circuit in which a single resistor is in series with a parallel combination of two resistors.
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Microphys \$20.00

PRODUCT NAME: Specific Gas Laws Product Code:PC11
Generates a series of 3 questions dealing with gases undergoing isothermal, isobaric, and isovolumic processes. Thus, Boyle's, Charles', and Gay-Lussac's Laws are reviewed.
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Microphys \$20.00

PRODUCT NAME: Specific Heat Capacity Product Code:PC9
Generates a series of 4 questions dealing with the definition of specific heat capacity.
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Microphys \$20.00

PRODUCT NAME: Stoichiometric Analysis Product Code:PC309
This utility program is designed to provide solutions to problems involving mass/mass, mass/volume, and volume/volume relationships in chemical reactions.
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Microphys \$20.00

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PRODUCT NAME: Stoichiometric Analysis Product Code:PC309

This utility program is designed to provide solutions to problems involving mass/mass, mass/volume, and volume/volume relationships in chemical reactions.
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Microphys \$20.00

PRODUCT NAME: Stoichiometry: General Product Code:PC31

Generates a series of questions dealing with stoichiometric relationships in chemical reactions. Mass/mass, mass/volume, and volume/volume problem types are randomly generated.
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Microphys \$20.00

PRODUCT NAME: Stoichiometry: Mass/Mass Product Code:PC28

Generates a series of questions which permits the development of facility in solving problems which involve mass/mass relationships in various chemical reactions.
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Microphys \$20.00

PRODUCT NAME: Stoichiometry: Mass/Volume Product Code:PC29

Generates a series of questions which permits the development of facility in solving problems which involve mass/volume relationships in various chemical reaction.
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Microphys \$20.00

PRODUCT NAME: Stoichiometry: volume/volume Product Code:PC30

Generates a series of questions which permits the development of facility in solving problems which involve volume/volume relationships in various chemical

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reactions.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Microphys \$20.00

PRODUCT NAME: Symbols and Valences Drill Product Code:PC37

Students are given practice in learning the symbols and valences of the common ions and radicals encountered in elementary courses.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Microphys \$20.00

PRODUCT NAME: Thermodynamics I Product Code:PC13

Generates a series of 5 questions dealing with a confined gas which undergoes an isobaric process. The concepts of molar heat capacity, Charles' Law, and the first law of thermodynamics are thus reviewed.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Microphys \$20.00

PRODUCT NAME: Thermodynamics II Product Code:PC14

Generates a series of 5 questions dealing with a confined gas which undergoes an isobaric compression during which a quantity of heat is removed.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Microphys \$20.00

PRODUCT NAME: Total Internal Reflection Product Code:PC40

Generates a series of questions dealing with the reflection of light at appropriate interfaces.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Microphys \$20.00

PRODUCT NAME: Transverse Standing Waves Product Code:PC15

Generates a series of 4 questions dealing with the study of the standing wave pattern established in a wire which

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is fastened at both ends.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Microphys \$20.00

PRODUCT NAME: Vector Analysis I Product Code:PC301

Generates problems in which the student is asked to determine the magnitude and direction of the resultant of a concurrent system of three to five vectors.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Microphys \$20.00

PRODUCT NAME: Vector Analysis II Product Code:PC302

This utility program is designed to determine the magnitude and direction of a system of concurrent vectors.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Microphys \$20.00

PRODUCT NAME: Compete Product Code:C

Plant competition. Computer simulations of seven investigations concerning interactions between flowering plants.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Conduit \$30.00

PRODUCT NAME: Coexist Product Code:C

Study of population dynamics through simulation of biological situations.

hrd Contact dealer.

AVAILABLE FROM: Conduit \$30.00

PRODUCT NAME: Evolut Product Code:C

Evolution and natural selection. Enables students to follow course of natural selections for as many

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generations as desired.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Conduit \$30.00

PRODUCT NAME: Chemistry Laboratory Simulations Product Code:C

Acid-base titration, reaction kinetics, oxidation-reduction, and Bohr model of the atom are examined.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Conduit \$40.00

PRODUCT NAME: Haber Product Code:C

Ammonia synthesis. Computer simulation of the Haber process and how various conditions influence the course of the reaction.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Conduit \$30.00

PRODUCT NAME: Rkinet Product Code:C

Reaction kinetics. Mathematical modeling of the ways various factors influence the rate of a chemical reaction.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Conduit \$30.00

PRODUCT NAME: Chemistry Analysis I Product Code:C

This utility program is designed to solve problems involving the mole concept and molarity.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Microphys \$20.00

PRODUCT NAME: Chemistry Analysis II Product Code:PC308

This utility program is designed to provide solutions to problems involving normality, molality, and changes in

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freezing/boiling points of solutions.
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Microphys \$20.00

PRODUCT NAME: Acceleration Due to Gravity Product Code:20M310

The program shows an animated real-time simulation of a dense object falling from rest. By showing the fall one frame at a time, the student may make measurements of displacement-time data from which he may show that g is constant and calculate its value. The computer checks the accuracy of the student's measurements and requires the student to re-do poor ones.
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Merlan Scientific \$18.00

PRODUCT NAME: Average Speed Product Code:20M110

This program leads the student from a definition of average speed through a series of problems designed to reinforce the concept. Many of the problems are illustrated by animated diagrams. Throughout the program, the student is provided with feedback appropriate to his answers. The program concludes with a self test which scores the student on his progress.
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Merlan Scientific \$24.00

PRODUCT NAME: Average Velocity Product Code:20M120

Similar to the program on Average Speed, these exercises explore the concept of average velocity, providing many examples and feedback.
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Merlan Scientific \$24.00

PRODUCT NAME: Data Analysis Series (3 programs) Product Code:20M210

PLOTAGRAPH I:

This program accepts data and plots a graph on a 60 x 40 array of points by making use of the PET graphic characters. Scaling of axes is done automatically.

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PLOTAGRAPH II:

This program will plot up to four different sets of data on the same grid. Each data set is represented by a different symbol. Scaling is done automatically.

TICKERTAPE:

This program quickly analyzes tickertape data. The student inputs the displacement of each dot on the tape (measured from the first dot). The computer will plot displacement-time, velocity-time, and acceleration-time graphs.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Merlan Scientific \$20.00

PRODUCT NAME: Electric Field Analysis Product Code:PC35

Generates a series of 6 questions dealing with the work done in transferring a charged particle between two points in a uniform electric field.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Microphys \$20.00

PRODUCT NAME: Gravitational Potential Energy Product Code:20M320

A real time simulation of a projectile moving in a two dimensional path is used to guide the student through a series of measurements from which he calculates the kinetic energy of the projectile as a function of its height above the ground. He is led to draw conclusions about the nature of the energy stored as the height of the projectile increases and to deduce the equation $E_p = mg * h$.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Merlan Scientific \$20.00

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PRODUCT NAME: More Algebra

A set of 5 Computer Assisted Instruction programs for the COMMODORE Computer to compliment TYCOM ALGEBRA. Programs included are:

SLOPE which reviews the concepts of graphing, slope and distance between points.

SIMUL simultaneous linear equations in two variables showing solution by substitution as well as combination.

QUAD quadratic equations which may be solved by factoring.

DISC use of the Discriminant to determine the nature of the roots of a quadratic equation

COMP review of the Quadratic Formula

All programs keep score and provide grades upon exit.

All five programs are available on one cassette or as a set of five cassettes.

HARDWARE REQUIREMENTS: 8K CPU any ROM and C2N cassette.

AVAILABLE FROM:	Tycom Associates	5 on 1	\$19.95
		5 on 5	26.95

PRODUCT NAME: High School Sampler

A set of handy drills for any needed re-enforcement. Especially helpful in checking homework. Choose type of problem and give your answer. Can be set for a range of answers (a near miss is as good as a hit) in three modes, TEST, DRILL and ANSWER ONLY.

HARDWARE REQUIREMENTS: 8-32K CPU (2.0 or 3.0 ROMs).

AVAILABLE FROM:	Harry H. Briley	\$15.00
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PRODUCT NAME:	Interp	Product Code:C
	<p>Wave superposition. This program increases understanding of modeling in physics. Uses wave theory of light in explaining observed phenomena. HARDWARE REQUIREMENTS: Contact dealer.</p>	
AVAILABLE FROM:	Conduit	\$30.00

PRODUCT NAME:	Introductory Mechanics Drill Package	Product Code:20M420
	<p>This is a series of four programs on one tape. Each program is designed to drill a student on the use of one specific formula or concept. The drill is presented in a game-like atmosphere in which the student is challenged to work quickly. The student receives feedback on accuracy and time taken. HARDWARE REQUIREMENTS: Contact dealer.</p>	
AVAILABLE FROM:	Merlan Scientific	\$16.00

PRODUCT NAME:	Linear Air Track - Momentum in Elastic Collisions	Product Code:20M350
	<p>This program displays a real time simulation of the motion of objects of different mass along a frictionless air track. The objects collide elastically, allowing the student to make measurements and do calculations which leads to a confirmation of the law of conservation of momentum. HARDWARE REQUIREMENTS: Contact dealer.</p>	
AVAILABLE FROM:	Merlan Scientific	\$20.00

PRODUCT NAME:	Milliken's Experiment	Product Code:20M335
	<p>This program simulates the original oil drop experiment. The particle is injected into the chamber and then ionized. By increasing or decreasing the voltage on the plates, the particle is brought to equilibrium and the voltage recorded. After 5 successful attempts the PET assists the student in analyzing the experimental data to determine the charge on the particle. HARDWARE REQUIREMENTS: 16K minimum.</p>	
AVAILABLE FROM:	Merlan Scientific	\$26.00

EDUCATION

PRODUCT NAME: Newton Product Code:C
Satellite orbits. Simulations of Newton's experiments.
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Conduit \$30.00

PRODUCT NAME: Periodic Motion Product Code:20M150
These 5 programs teach the concepts of periodic motion, cycle, longitudinal and transverse vibration, amplitude, phase, period and frequency.
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Merlan Scientific \$28.00

PRODUCT NAME: Periodic Waves: Basic Concepts Product Code:20M165
This sequence of 3 programs concentrates on periodic waves, introducing the ideas of wavelength, amplitude, period, and frequency. Although the lessons stress transverse waves, a segment at the end demonstrates longitudinal waves and their related vocabulary.
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Merlan Scientific \$24.00

PRODUCT NAME: Periodic Waves: Interference and Standing Waves Product Code:20M170
The final sequence of 2 programs, analyzes the production of standing waves on a stretched spring by applying the ideas of interference to the case of periodic wave motion.
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Merlan Scientific \$24.00

PRODUCT NAME: Photon Interference Product Code:20M140
This program simulates random behavior of photons passing through a double slit and gradually produces the statistical pattern of the bright and dark bars.
HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Merlan Scientific \$12.00

EDUCATION

PRODUCT NAME: Radioactivity-Half Life Product Code:20M340

This program simulates the radioactive decay of a short-lived radioisotope. Data is collected for a 7 minute period, then the student is guided through an analysis to determine the half life of the isotope. The program includes sound to enhance the presentation.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Merlan Scientific \$20.00

PRODUCT NAME: Scatter Product Code:Physics C

Description: Particle scattering. Computer simulations of nuclear scattering investigations.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Conduit \$30.00

PRODUCT NAME: Superposition Package Product Code:20M130

This is a series of two programs designed to help illustrate how two or more waves add together to produce superposed waveforms.

- Superposition I: A static presentation in which two or more waves may be added. For each wave, wavelength, attenuation and phase delay may be specified.

- Superposition II: A dynamic presentation in which two waves and their resultant waveform are shown rolling up the screen continuously. For each wave, wavelength, attenuation, and phase delay must be specified.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Merlan Scientific \$16.00

PRODUCT NAME: Target Practice Product Code:20M410

This program takes the form of a game designed to test the student's knowledge of projectile motion equations. The student is given three or four flight parameters (range, muzzle velocity, firing angle, and height above ground level) and asked to calculate the fourth. Graphics simulate the flight of the projectile. Points are awarded for accuracy and the student's final score is displayed as a percent.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Merlan Scientific \$18.00

EDUCATION

PRODUCT NAME: Wave Demonstrations Product Code:20M180

This program is designed for teacher use in demonstrating wave phenomena. Routines include a periodic transverse wave, a periodic longitudinal wave, constructive and destructive interference of pulses, and standing waves on a string. The program allows the teacher to freeze the waves in order to illustrate specific points of discussion such as wavelength and direction of particle motion.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Merlan Scientific \$24.00

PRODUCT NAME: Waves In A Linear Medium: Product Code:20M160
Superposition

The concepts of constructive and destructive interference of pulses are explored in a series of 2 programs. The student will be taught the details of how to use the superposition principle to construct wave patterns resulting from the interference of two pulses.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Merlan Scientific \$24.00

PRODUCT NAME: Answer Box Product Code:OT-8

Answer Box assumes that students will bring printed instructional materials to the computer and type in their answers to problems at the keyboard. To prepare Answer Box programs, teachers need to have only the ability to type answers on data lines. If the student does not know the answer, typing the question mark will cause the right answer to be revealed.

HARDWARE REQUIREMENTS: Contact dealer.

AVAILABLE FROM: Micro-Ed \$7.95 (cassette)

PRODUCT NAME: PET BASIC 1 PRODUCT CODE: R5524-5

The complete guide to hassle-free programing. Each chapter is written for the reader who's learning to use the PET. Filled with examples, do-it-yourself exercises and fun-filled explorations. Also serves as a handy, well-organized reference source for veteran PET owners. Publication date May '81.

AVAILABLE FROM: Reston Publishing, Inc. \$12.95

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St. Louis, MO 63132

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Menlo Park, CA 94025

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New York, NY 10017
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Ann Arbor, MI 48109
(313) 763-2009

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681 Moore Road, King of Prussia, Pennsylvania 19406



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